

H.W. Berger
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NBSIR 87-3519

1986-87 Directory of NVLAP Accredited Laboratories

Harvey W. Berger, Editor

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U.S. DEPARTMENT OF COMMERCE
National Bureau of Standards
Office of Product Standards Policy
Gaithersburg, MD 20899

January 1987



U.S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS

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ACCREDITED LABORATORIES**

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January 1987

**U.S. DEPARTMENT OF COMMERCE, Malcolm Baldrige, *Secretary*
NATIONAL BUREAU OF STANDARDS, Ernest Ambler, *Director***

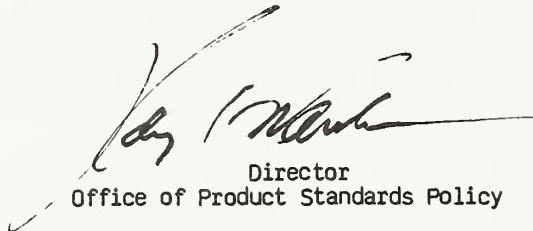


PREFACE

The National Bureau of Standards' National Voluntary Laboratory Accreditation Program (NVLAP) improves the competence of testing laboratories and the reliability of laboratory measurements. Laboratory ability to meet NVLAP criteria and technical requirements, for accreditation of specific test methods, is determined through on-site assessments by technical experts, and laboratory participation in proficiency testing programs. Publication of results of proficiency testing and participation in standards development contribute to improved test methods and laboratory performance.

The accredited laboratories have been found competent to perform the specific test methods shown. They have the skilled people, necessary facilities and equipment, and documentation and quality assurance systems to produce reliable test data. We recommend that consideration be given to the use of these laboratories whenever their accredited testing capabilities satisfy testing needs.

NVLAP has pursued its activities to accredit laboratories in testing areas for which there has been a specific request, a demonstrated need, and a potential benefit to the public. NVLAP has also provided the basis for acceptance by other countries of test data produced by laboratories in the United States through bilateral agreements. We shall continue to work toward liberalizing the means to satisfying trade requirements whenever possible.



Dr. J. M. Martin
Director
Office of Product Standards Policy

DIRECTORY OF NVLAP ACCREDITED LABORATORIES

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Introduction

This Directory lists laboratories accredited, under the procedures of the National Voluntary Laboratory Accreditation Program (NVLAP), as of January 1, 1987. Indexes A, B, and C list the accredited laboratories alphabetically by name, by field of testing, and by state, respectively. Each laboratory's scope of accreditation, which lists the specific test methods for which it is accredited, is presented in Index E.

The period of accreditation is generally one year. Since a laboratory can be accredited on January 1, April 1, July 1, or October 1, its accreditation will terminate, and must be renewed by that date to remain in force. Users of this Directory, considering the use of accredited laboratories, should be cognizant of the accreditation renewal date and determine if the laboratory is accredited at the time its services are to be provided. Current information on the accredited status of a laboratory can be obtained from the laboratory or by writing to the following address or calling NVLAP on 301-975-4016.

Manager, Laboratory Accreditation
National Bureau of Standards
Admin A531
Gaithersburg, MD 20899

Laboratory Participation Summary

The following table summarizes accreditation actions that have occurred during calendar year 1985. Since some laboratories are accredited in more than one field of testing, the number of accredited laboratories listed by field (see Index B) is greater than the number of laboratories in the system (see Index A).

	Field of Testing*									
	TIM	CON	CAR	STO	ACO	CPL	DOS	SEA	ECT	TOTAL
Initial Accreditations		1			1	2	10	1	14	+27
Terminations	3	3	1	2	1		1			-11
Suspensions	1									-1
Renewals	1	2								+3
Total Accredited Laboratories	35	28	21	9	7	6	44	1	14	165
Change in Total Accredited Labs from December 1984	-2	0	0	-2	-1	+2	+9	0	+14	+20

*TIM - Thermal Insulation
CON - Concrete
CAR - Carpet
STO - Solid fuel burning heaters
ACO - Acoustics
CPL - Commercial products including paints, paper, and related products
DOS - Radiation dosimetry
SEA - Building seals and sealants
ECT - Electromagnetic interference testing

The following Indexes list NVLAP-accredited laboratories by NVLAP Code Number, laboratory name, city and state (or country if not the U.S.).

INDEX A. LISTING BY LABORATORY NAME

INDEX B. LISTING BY FIELD OF TESTING

INDEX C. LISTING BY STATE

INDEX A. LISTING BY LABORATORY NAME

0183	A & H/FLOOD ENGINEERING	HILL SIDE	IL
0135	AGUIRRE ENGINEERS	ENGLEWOOD	CO
0271	AMADOR	ALMELUND	MN
0139	AMERICAN CARPET LABS	RINGGOLD	GA
0146	AMERICAN TESTING LABS	LANCASTER	PA
0218	APACHE BUILDING PRODUCTS	LINDEN	NJ
0536	ARIZONA NUCLEAR POWER PROJECT	PHOENIX	AZ
0542	ARIZONA STATE UNIVERSITY	TEMPE	AZ
0228	ARMSTRONG WORLD INDUSTRIES	LANCASTER	PA
0225	ARNOLD GREENE TESTING LABORATORY	AUBURN	MA
0154	ARUNDEL	BALTIMORE	MD
0177	ATLANTIC TESTING LABS	CICERO	NY
0275	AT&T INFORMATIONS SYSTEMS EMC LAB	HOLMDEL	NJ
0501	BALTIMORE GAS & ELECTRIC	LUSBY	MD
0260	BASF STYROPOR TECHNICAL CENTER	JAMESBURG	NJ
0156	BIGELOW SANFORD	SUMMERVILLE	GA
0178	BIGELOW SANFORD	GREENVILLE	SC
0251	CALIFORNIA DEPT. OF CONSUMER AFFAIRS	NORTH HIGHLANDS	CA
0203	CALMAT CO/CONROCK DIV TESTING LAB	LOS ANGELES	CA
0258	CELOTEX TRACY PLANT	TRACY	CA
0101	CERTAINTeed	BLUE BELL	PA
0108	CERTIFIED TESTING LABS	DALTON	GA
0160	CHISHOLM TRAIL TESTING & ENGINEERING	DECATUR	TX
0120	COMMERCIAL TESTING	DALTON	GA
0541	COMMONWEALTH EDISON	CHICAGO	IL
0272	COMMUNICATION CERTIFICATION LAB	SALT LAKE CITY	UT
0538	CON EDISON INDIAN POINT	BUCHANAN	NY
0522	CONSUMERS POWER	JACKSON	MI
0277	CONTINENTAL TESTING LABS	FERN PARK	FL
0190	CORONET CARPET	DALTON	GA
0243	CUSTOM COATING	DALTON	GA
0270	DASH, STRAUS & GOODHUE	BOXBOROUGH	MA
0529	DETROIT EDISON	NEWPORT	MI
0103	DOW CHEMICAL	GRANVILLE	OH
0175	DOW CHEMICAL, NORTH HAVEN LABS	NORTH HAVEN	CT
0505	DUKE POWER	HUNTERSVILLE	NC
0521	DUQUESNE LIGHT	SHIPPINGPORT	PA
0113	DYNATECH R & D	CAMBRIDGE	MA
0276	D.L.S. ELECTRONIC SYSTEMS	GLENVIEW	IL
0252	D/L LABORATORIES	NEW YORK	NY
0149	E & B CARPET MILLS	DALTON	GA
0515	EBERLINE ANALYTICAL/THERMO ELECTRON	ALBUQUERQUE	NM
0278	ELITE ELECTRONIC ENGINEERING	DOWNERS GROVE	IL
0268	EMACO	SAN DIEGO	CA
0161	ENGINEERING TESTING LAB	AKRON	OH
0115	FACTORY MUTUAL	NORWOOD	MA
0544	FLORIDA POWER & LIGHT	JUNO BEACH	FL
0257	GAI CONSULTANTS	MONROEVILLE	PA
0163	GALAXY TESTING LAB	CHATSWORTH	GA
0195	GARCO TESTING LABORATORY	MURRAY	UT
0141	GENSTAR STONE PRODUCTS	WHITE MARSH	MD
0279	GEOANALYTICS	QUEZON CITY, PHILIPPINES	
0142	GEOSCIENCE	SOLANA BEACH	CA
0253	GIFFORD-HILL	DE SOTO	TX
0229	GOLD BOND BUILDING PRODUCTS	BUFFALO	NY
0510	GPU NUCLEAR CORP.	MIDDLETOWN	PA
0274	GTE EVALUATION & SUPPORT DEPT	LEXINGTON	KY
0208	GULF COAST TESTING LABORATORY	CORPUS CHRISTI	TX
0513	GULF NUCLEAR, INC.	WEBSTER	TX
0534	GULF STATES UTILITIES-RIVER BEND	ST. FRANCISVILLE	LA
0151	HARDWOOD PLYWOOD MANUFACTURERS ASSOC	RESTON	VA
0517	HARRIS ENERGY & ENVIRONMENTAL CENTER	NEW HILL	NC
0247	HOLLYTEX CARPET MILL	ANADARKO	OK
0239	HOUGH ACOUSTICAL LABORATORY	JAMESVILLE	WI
0519	HOUSTON LIGHTING & POWER	HOUSTON	TX
0131	H.C. NUTTING	CINCINNATI	OH
0166	INDEPENDENT TEXTILE TESTING	DALTON	GA
0210	INSTA-FOAM PRODUCTS	JOLIET	IL
0111	JIM WALTER RESEARCH	ST. PETERSBURG	FL
0526	KANSAS GAS & ELECTRIC	BURLINGTON	KS

0248	KNAUF FIBER GLASS RESEARCH	SHELBYVILLE	IN
0215	LINCOLN-DEVORE	COLORADO SPRINGS	CO
0530	LOUISIANA POWER & LIGHT CO	KILLONA	LA
0259	MACMILLAN BLOEDEL	PINE HILL	AL
0503	MALLINCKRODT DIAGNOSTICS	MARYLAND HEIGHTS	MO
0123	MANVILLE	DENVER	CO
0273	MET ELECTRICAL TESTING	BALTIMORE	MD
0546	MISSISSIPPI POWER & LIGHT	PORT GIBSON	MS
0104	NAHB RESEARCH FOUNDATION	ROCKVILLE	MD
0504	NAVAL MEDICAL COMMAND	BETHESDA	MD
0509	NAVAL RESEARCH LABORATORY	WASHINGTON	DC
0543	NEW HAMPSHIRE YANKEE, SEABROOK STA	SEABROOK	NJ
0508	NEW YORK POWER AUTHORITY-INDIAN POINT	BUCHANAN	NY
0511	NEW YORK POWER AUTHORITY-LYCOMING	LYCOMING	NY
0269	NORAND EMC TEST LAB	CEDAR RAPIDS	IA
0540	NORTHEAST UTILITIES SERVICE	HARTFORD	CT
0244	NORTHWEST TESTING LABS	PORTLAND	OR
0525	OMAHA PUBLIC POWER DISTRICT	OMAHA	NE
0240	OMNI ENVIRONMENTAL SERVICES	BEAVERTON	OR
0109	OWENS CORNING FIBERGLAS	GRANVILLE	OH
0124	OWENS CORNING FIBERGLAS	SANTA CLARA	CA
0125	OWENS CORNING FIBERGLAS	FAIRBURN	GA
0126	OWENS CORNING FIBERGLAS	KANSAS CITY	KS
0128	OWENS CORNING FIBERGLAS	DELMAR	NY
0129	OWENS CORNING FIBERGLAS	NEWARK	OH
0130	OWENS CORNING FIBERGLAS	WAXAHACHIE	TX
0537	PACIFIC GAS & ELECTRIC	AVILA BEACH	CA
0223	PFS CORPORATION	MADISON	WI
0237	PITTSBURGH TESTING LABORATORY	SYRACUSE	NY
0201	PTL-INSPECTORATE	PITTSBURGH	PA
0531	PUBLIC SERVICE ELECTRIC & GAS	HANCOCKS BRIDGE	NJ
0280	R & B ENTERPRISES	WEST CONSHOHOCKEN	PA
0261	RADCO	GARDENA	CA
0512	RADIATION DETECTION	SUNNYVALE	CA
0267	RETLIF TESTING LABORATORIES	RONKONKOMA	NY
0232	RITCHIE LABORATORIES	WICHITA	KS
0227	RIVERBANK ACOUSTICAL LAB OF IIT	CHICAGO	IL
0514	ROCHESTER GAS & ELECTRIC	ONTARIO	NY
0518	R. S. LANDAUER, JR/TECH OPSDIV	GLENWOOD	IL
0245	R.F. GEISSEY AND ASSOC	EAST PROVIDENCE	RI
0206	R.W. SIDLEY	THOMPSON	OH
0221	SALEM CARPET LABORATORY	RINGGOLD	GA
0193	SHAW INDUSTRIES	DALTON	GA
0264	SHELTON RESEARCH	SANTA FE	NM
0532	SIEMENS GAMMASONICS	DES PLAINES	IL
0192	SMITH-EMERY	LOS ANGELES	CA
0547	SOUTH CAROLINA ELECTRIC & GAS	COLUMBIA	SC
0506	SOUTHERN CALIFORNIA EDISON	SAN CLEMENTE	CA
0121	SPARRELL ENGINEERING RESEARCH	DAMARISCOTTA	ME
0281	STANDARD T CHEMICAL/TECHNICAL CTR	CHICAGO HEIGHTS	IL
0220	STRATTON LABORATORIES	CARTERSVILLE	GA
0233	STS CONSULTANTS	FAIRFAX	VA
0191	STS CONSULTANTS	NORTHBROOK	IL
0122	TECHNICAL MICRONICS CONTROL	HUNTSVILLE	AL
0533	TELEDYNE ISOTOPES	WESTWOOD	NJ
0516	TENNESSEE VALLEY AUTHORITY	MUSCLE SHOALS	AL
0196	TEXAS TESTING LABORATORY	DALLAS	TX
0528	TEXAS UTILITIES GENERATING	GLEN ROSE	TX
0188	TWIN CITY TESTING AND ENGINEERING	ST. PAUL	MN
0116	UNDERWRITERS LABORATORIES	NORTHBROOK	IL
0117	UNDERWRITERS LABORATORIES	SANTA CLARA	CA
0255	UNDERWRITERS LABORATORIES	MELVILLE	NY
0502	UNION ELECTRIC	FULTON	MO
0105	UNITED STATES TESTING	HOBOKEN	NJ
0106	UNITED STATES TESTING	LOS ANGELES	CA
0107	UNITED STATES TESTING	TULSA	OK
0266	UNITED STATES TESTING	HOBOKEN	NJ
0241	UNITED STATES TESTING WESTERN STATES	MODESTO	CA
0539	US ARMY IONIZING RADIATION DOS CTR	LEXINGTON	KY
0216	USG	LIBERTYVILLE	IL
0230	VIRGINIA CONCRETE LABORATORY	SPRINGFIELD	VA
0520	VIRGINIA ELECTRIC & POWER, MINERAL	MINERAL	VA
0523	VIRGINIA ELECTRIC & POWER, SURRY	SURRY	VA

0133	WALT KEELER	WICHITA	KS
0249	WARNOCK HERSEY INT'L	MIDDLETON	WI
0545	WASHINGTON PUBLIC POWER SUPPLY SYSTEM	RICHLAND	WA
0256	WESTERN ELECTRO-ACOUSTIC LAB	SANTA MONICA	CA
0265	WEYERHAEUSER TECHNOLOGY CENTER	TACOMA	WA
0263	WHITTAKER ANALYTICAL SERVICES	COLTON	CA
0226	WISS, JANNEY, ELSTNER AND ASSOCIATES	NORTHBROOK	IL
0197	WORLD CARPETS	DALTON	GA
0176	W. R. GRACE	CAMBRIDGE	MA
0250	W. R. GRACE	CAMBRIDGE	MA
0524	YANKEE ATOMIC ELECTRIC	FRAMINGHAM	MA

INDEX B. LISTING BY FIELD OF TESTING

acoustics

0111	JIM WALTER RESEARCH	ST. PETERSBURG	FL
0123	MANVILLE	DENVER	CO
0227	RIVERBANK ACOUSTICAL LAB OF IIT	CHICAGO	IL
0228	ARMSTRONG WORLD INDUSTRIES	LANCASTER	PA
0229	GOLD BOND BUILDING PRODUCTS	BUFFALO	NY
0239	HOUGH ACOUSTICAL LABORATORY	JAMESVILLE	WI
0256	WESTERN ELECTRO-ACOUSTIC LAB	SANTA MONICA	CA

carpet

0105	UNITED STATES TESTING	HOBOKEN	NJ
0106	UNITED STATES TESTING	LOS ANGELES	CA
0108	CERTIFIED TESTING LABS	DALTON	GA
0115	FACTORY MUTUAL	NORWOOD	MA
0120	COMMERCIAL TESTING	DALTON	GA
0139	AMERICAN CARPET LABS	RINGGOLD	GA
0149	E & B CARPET MILLS	DALTON	GA
0151	HARDWOOD PLYWOOD MANUFACTURERS ASSOC	RESTON	VA
0156	BIGELOW SANFORD	SUMMERVILLE	GA
0160	CHISHOLM TRAIL TESTING & ENGINEERING	DECATUR	TX
0163	GALAXY TESTING LAB	CHATSWORTH	GA
0166	INDEPENDENT TEXTILE TESTING	DALTON	GA
0178	BIGELOW SANFORD	GREENVILLE	SC
0190	CORONET CARPET	DALTON	GA
0193	SHAW INDUSTRIES	DALTON	GA
0197	WORLD CARPETS	DALTON	GA
0220	STRATTON LABORATORIES	CARTERSVILLE	GA
0221	SALEM CARPET LABORATORY	RINGGOLD	GA
0243	CUSTOM COATING	DALTON	GA
0247	HOLLYTEX CARPET MILL	ANADARKO	OK

concrete

0131	H.C. NUTTING	CINCINNATI	OH
0133	WALT KEELER	WICHITA	KS
0135	AGUIRRE ENGINEERS	ENGLEWOOD	CO
0141	GENSTAR STONE PRODUCTS	WHITE MARSH	MD
0146	AMERICAN TESTING LABS	LANCASTER	PA
0154	ARUNDEL	BALTIMORE	MD
0161	ENGINEERING TESTING LAB	AKRON	OH
0176	W. R. GRACE	CAMBRIDGE	MA
0177	ATLANTIC TESTING LABS	CICERO	NY
0183	A & H/FLOOD ENGINEERING	HILL SIDE	IL
0188	TWIN CITY TESTING AND ENGINEERING	ST. PAUL	MN
0191	STS CONSULTANTS	NORTHBROOK	IL
0192	SMITH-EMERY	LOS ANGELES	CA
0195	GARCO TESTING LABORATORY	MURRAY	UT
0196	TEXAS TESTING LABORATORY	DALLAS	TX
0201	PTL-INSPECTORATE	PITTSBURGH	PA
0203	CALMAT CO/CONROCK DIV TESTING LAB	LOS ANGELES	CA
0206	R.W. SIDLEY	THOMPSON	OH
0208	GULF COAST TESTING LABORATORY	CORPUS CHRISTI	TX
0215	LINCOLN-DEVORE	COLORADO SPRINGS	CO
0230	VIRGINIA CONCRETE LABORATORY	SPRINGFIELD	VA
0232	ITCHIE LABORATORIES	WICHITA	KS

0233	STS CONSULTANTS	FAIRFAX	VA
0237	PITTSBURGH TESTING LABORATORY	SYRACUSE	NY
0241	UNITED STATES TESTING WESTERN STATES	MODESTO	CA
0253	GIFFORD-HILL	DE SOTO	TX
0257	GAI CONSULTANTS	MONROEVILLE	PA
0279	GEOANALYTICS	QUEZON CITY, PHILIPPINES	

Paint

0252	D/L LABORATORIES	NEW YORK	NY
0263	WHITTAKER ANALYTICAL SERVICES	COLTON	CA
0266	UNITED STATES TESTING	HOBOKEN	NJ
0281	STANDARD T CHEMICAL/TECHNICAL CTR	CHICAGO HEIGHTS	IL

Paper

0259	MACMILLAN BLOEDEL	PINE HILL	AL
0265	WEYERHAEUSER TECHNOLOGY CENTER	TACOMA	WA

dosimetry

0501	BALTIMORE GAS & ELECTRIC	LUSBY	MD
0502	UNION ELECTRIC	FULTON	MO
0503	MALLINCKRODT DIAGNOSTICS	MARYLAND HEIGHTS	MO
0504	NAVAL MEDICAL COMMAND	BETHESDA	MD
0505	DUKE POWER	HUNTERSVILLE	NC
0506	SOUTHERN CALIFORNIA EDISON	SAN CLEMENTE	CA
0508	NEW YORK POWER AUTHORITY-INDIAN POINT	BUCHANAN	NY
0509	NAVAL RESEARCH LABORATORY	WASHINGTON	DC
0510	GPU NUCLEAR CORP.	MIDDLETOWN	PA
0511	NEW YORK POWER AUTHORITY-LYCOMING	LYCOMING	NY
0512	RADIATION DETECTION	SUNNYVALE	CA
0513	GULF NUCLEAR, INC.	WEBSTER	TX
0514	ROCHESTER GAS & ELECTRIC	ONTARIO	NY
0515	EBERLINE ANALYTICAL/THERMO ELECTRON	ALBUQUERQUE	NM
0516	TENNESSEE VALLEY AUTHORITY	MUSCLE SHOALS	AL
0517	HARRIS ENERGY & ENVIRONMENTAL CENTER	NEW HILL	NC
0518	R. S. LANDAUER, JR/TECH OPSDIV	GLENWOOD	IL
0519	HOUSTON LIGHTING & POWER	HOUSTON	TX
0520	VIRGINIA ELECTRIC & POWER, MINERAL	MINERAL	VA
0521	DUQUESNE LIGHT	SHIPPINGPORT	PA
0522	CONSUMERS POWER	JACKSON	MI
0523	VIRGINIA ELECTRIC & POWER, SURRY	SURRY	VA
0524	YANKEE ATOMIC ELECTRIC	FRAMINGHAM	MA
0525	OMAHA PUBLIC POWER DISTRICT	OMAHA	NE
0526	KANSAS GAS & ELECTRIC	BURLINGTON	KS
0528	TEXAS UTILITIES GENERATING	GLEN ROSE	TX
0529	DETROIT EDISON	NEWPORT	MI
0530	LOUISIANA POWER & LIGHT CO	KILLONA	LA
0531	PUBLIC SERVICE ELECTRIC & GAS	HANCOCKS BRIDGE	NJ
0532	SIEMENS GAMMASONICS	DES PLAINES	IL
0533	TELEDYNE ISOTOPES	WESTWOOD	NJ
0534	GULF STATES UTILITIES-RIVER BEND	ST. FRANCISVILLE	LA
0536	ARIZONA NUCLEAR POWER PROJECT	PHOENIX	AZ
0537	PACIFIC GAS & ELECTRIC	AVILA BEACH	CA
0538	CON EDISON INDIAN POINT	BUCHANAN	NY
0539	US ARMY IONIZING RADIATION DOS CTR	LEXINGTON	KY
0540	NORTHEAST UTILITIES SERVICE	HARTFORD	CT
0541	COMMONWEALTH EDISON	CHICAGO	IL
0543	NEW HAMPSHIRE YANKEE, SEABROOK STA	SEABROOK	NJ
0544	FLORIDA POWER & LIGHT	JUNO BEACH	FL
0545	WASHINGTON PUBLIC POWER SUPPLY SYSTEM	RICHLAND	WA
0546	MISSISSIPPI POWER & LIGHT	PORT GIBSON	MS
0542	ARIZONA STATE UNIVERSITY	TEMPE	AZ
0547	SOUTH CAROLINA ELECTRIC & GAS	COLUMBIA	SC

electromagnetics

0267	RETLIF TESTING LABORATORIES	RONKONKOMA	NY
0268	EMACO	SAN DIEGO	CA
0269	NORAND EMC TEST LAB	CEDAR RAPIDS	IA
0270	DASH, STRAUS & GOODHUE	BOXBOROUGH	MA
0271	AMADOR	ALMELUND	MN

0272	COMMUNICATION CERTIFICATION LAB	SALT LAKE CITY	UT
0255	UNDERWRITERS LABORATORIES	MELVILLE	NY
0273	MET ELECTRICAL TESTING	BALTIMORE	MD
0275	AT&T INFORMATIONS SYSTEMS EMC LAB	HOLMDEL	NJ
0274	GTE EVALUATION & SUPPORT DEPT	LEXINGTON	KY
0276	D.L.S. ELECTRONIC SYSTEMS	GLENVIEW	IL
0277	CONTINENTAL TESTING LABS	FERN PARK	FL
0278	ELITE ELECTRONIC ENGINEERING	DOWNERS GROVE	IL
0280	R & B ENTERPRISES	WEST CONSHOHOCKEN	PA

seals and sealants

0252	D/L LABORATORIES	NEW YORK	NY
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thermal insulation

0116	UNDERWRITERS LABORATORIES	NORTHBROOK	IL
0117	UNDERWRITERS LABORATORIES	SANTA CLARA	CA
0223	PFS CORPORATION	MADISON	WI
0225	ARNOLD GREENE TESTING LABORATORY	AUBURN	MA
0240	OMNI ENVIRONMENTAL SERVICES	BEAVERTON	OR
0244	NORTHWEST TESTING LABS	PORTLAND	OR
0245	R.F. GEISSEER AND ASSOC	EAST PROVIDENCE	RI
0249	WARNOCK HERSEY INT'L	MIDDLETON	WI
0264	SHELTON RESEARCH	SANTA FE	NM
0101	CERTAINTeed	BLUE BELL	PA
0103	DOW CHEMICAL	GRANVILLE	OH
0104	NAHB RESEARCH FOUNDATION	ROCKVILLE	MD
0105	UNITED STATES TESTING	HOBOKEN	NJ
0106	UNITED STATES TESTING	LOS ANGELES	CA
0107	UNITED STATES TESTING	TULSA	OK
0109	OWENS CORNING FIBERGLAS	GRANVILLE	OH
0111	JIM WALTER RESEARCH	ST. PETERSBURG	FL
0113	DYNATECH R & D	CAMBRIDGE	MA
0115	FACTORY MUTUAL	NORWOOD	MA
0116	UNDERWRITERS LABORATORIES	NORTHBROOK	IL
0117	UNDERWRITERS LABORATORIES	SANTA CLARA	CA
0120	COMMERCIAL TESTING	DALTON	GA
0121	SPARRELL ENGINEERING RESEARCH	DAMARISCOTTA	ME
0122	TECHNICAL MICRONICS CONTROL	HUNTSVILLE	AL
0123	MANVILLE	DENVER	CO
0124	OWENS CORNING FIBERGLAS	SANTA CLARA	CA
0125	OWENS CORNING FIBERGLAS	FAIRBURN	GA
0126	OWENS CORNING FIBERGLAS	KANSAS CITY	KS
0128	OWENS CORNING FIBERGLAS	DELMAR	NY
0129	OWENS CORNING FIBERGLAS	NEWARK	OH
0130	OWENS CORNING FIBERGLAS	WAXAHACHIE	TX
0142	GEOSCIENCE	SOLANA BEACH	CA
0175	DOW CHEMICAL, NORTH HAVEN LABS	NORTH HAVEN	CT
0188	TWIN CITY TESTING AND ENGINEERING	ST. PAUL	MN
0210	INSTA-FOAM PRODUCTS	JOLIET	IL
0216	USG	LIBERTYVILLE	IL
0218	APACHE BUILDING PRODUCTS	LINDEN	NJ
0226	WISS, JANNEY, ELSTNER AND ASSOCIATES	NORTHBROOK	IL
0248	KNAUF FIBER GLASS RESEARCH	SHELBYVILLE	IN
0250	W. R. GRACE	CAMBRIDGE	MA
0251	CALIFORNIA DEPT. OF CONSUMER AFFAIRS	NORTH HIGHLANDS	CA
0258	CELOTEX TRACY PLANT	TRACY	CA
0260	BASF STYROPOR TECHNICAL CENTER	JAMESBURG	NJ
0261	RADCO	GARDENA	CA

INDEX C. LISTING BY STATE

0122	TECHNICAL MICRONICS CONTROL	HUNTSVILLE	AL
0259	MACMILLAN BLOEDEL	PINE HILL	AL
0516	TENNESSEE VALLEY AUTHORITY	MUSCLE SHOALS	AL
0536	ARIZONA NUCLEAR POWER PROJECT	PHOENIX	AZ
0542	ARIZONA STATE UNIVERSITY	TEMPE	AZ
0106	UNITED STATES TESTING	LOS ANGELES	CA
0117	UNDERWRITERS LABORATORIES	SANTA CLARA	CA
0124	OWENS CORNING FIBERGLAS	SANTA CLARA	CA
0142	GEOSCIENCE	SOLANA BEACH	CA
0192	SMITH-EMERY	LOS ANGELES	CA

0203	CALMAT CO/CONROCK DIV TESTING LAB	LOS ANGELES	CA
0241	UNITED STATES TESTING WESTERN STATES	MODESTO	CA
0251	CALIFORNIA DEPT. OF CONSUMER AFFAIRS	NORTH HIGHLANDS	CA
0256	WESTERN ELECTRO-ACOUSTIC LAB	SANTA MONICA	CA
0258	CELOTEX TRACY PLANT	TRACY	CA
0506	SOUTHERN CALIFORNIA EDISON	SAN CLEMENTE	CA
0512	RADIATION DETECTION	SUNNYVALE	CA
0537	PACIFIC GAS & ELECTRIC	AVILA BEACH	CA
0261	RADCO	GARDENA	CA
0263	WHITTAKER ANALYTICAL SERVICES	COLTON	CA
0268	EMACO	SAN DIEGO	CA
0123	MANVILLE	DENVER	CO
0135	AGUIRRE ENGINEERS	ENGLEWOOD	CO
0215	LINCOLN-DEVORE	COLORADO SPRINGS	CO
0175	DOW CHEMICAL, NORTH HAVEN LABS	NORTH HAVEN	CT
0540	NORTHEAST UTILITIES SERVICE	HARTFORD	CT
0509	NAVAL RESEARCH LABORATORY	WASHINGTON	DC
0111	JIM WALTER RESEARCH	ST. PETERSBURG	FL
0544	FLORIDA POWER & LIGHT	JUNO BEACH	FL
0277	CONTINENTAL TESTING LABS	FERN PARK	FL
0108	CERTIFIED TESTING LABS	DALTON	GA
0120	COMMERCIAL TESTING	DALTON	GA
0125	OWENS CORNING FIBERGLAS	FAIRBURN	GA
0139	AMERICAN CARPET LABS	RINGGOLD	GA
0149	E & B CARPET MILLS	DALTON	GA
0156	BIGELOW SANFORD	SUMMERVILLE	GA
0163	GALAXY TESTING LAB	CHATSWORTH	GA
0166	INDEPENDENT TEXTILE TESTING	DALTON	GA
0190	CORONET CARPET	DALTON	GA
0193	SHAW INDUSTRIES	DALTON	GA
0197	WORLD CARPETS	DALTON	GA
0220	STRATTON LABORATORIES	CARTERSVILLE	GA
0221	SALEM CARPET LABORATORY	RINGGOLD	GA
0243	CUSTOM COATING	DALTON	GA
0269	NORAND EMC TEST LAB	CEDAR RAPIDS	IA
0116	UNDERWRITERS LABORATORIES	NORTHBROOK	IL
0183	A & H/FLOOD ENGINEERING	HILL SIDE	IL
0191	STS CONSULTANTS	NORTHBROOK	IL
0210	INSTA-FOAM PRODUCTS	JOLIET	IL
0216	USG	LIBERTYVILLE	IL
0226	WISS, JANNEY, ELSTNER AND ASSOCIATES	NORTHBROOK	IL
0227	RIVERBANK ACOUSTICAL LAB OF IIT	CHICAGO	IL
0518	R. S. LANDAUER, JR/TECH OPSDIV	GLENWOOD	IL
0532	SIEMENS GAMMASONICS	DES PLAINES	IL
0541	COMMONWEALTH EDISON	CHICAGO	IL
0276	D.L.S. ELECTRONIC SYSTEMS	GLENVIEW	IL
0278	ELITE ELECTRONIC ENGINEERING	DOWNERS GROVE	IL
0281	STANDARD T CHEMICAL/TECHNICAL CTR	CHICAGO HEIGHTS	IL
0248	KNAUF FIBER GLASS RESEARCH	SHELBYVILLE	IN
0126	OWENS CORNING FIBERGLAS	KANSAS CITY	KS
0133	WALT KEELER	WICHITA	KS
0232	RITCHIE LABORATORIES	WICHITA	KS
0526	KANSAS GAS & ELECTRIC	BURLINGTON	KS
0539	US ARMY IONIZING RADIATION DOS CTR	LEXINGTON	KY
0274	GTE EVALUATION & SUPPORT DEPT	LEXINGTON	KY
0530	LOUISIANA POWER & LIGHT CO	KILLONA	LA
0534	GULF STATES UTILITIES-RIVER BEND	ST. FRANCISVILLE	LA
0113	DYNATECH R & D	CAMBRIDGE	MA
0115	FACTORY MUTUAL	NORWOOD	MA
0176	W. R. GRACE	CAMBRIDGE	MA
0250	W. R. GRACE	CAMBRIDGE	MA
0225	ARNOLD GREENE TESTING LABORATORY	AUBURN	MA
0524	YANKEE ATOMIC ELECTRIC	FRAMINGHAM	MA
0270	DASH, STRAUS & GOODHUE	BOXBOROUGH	MA
0104	NAHB RESEARCH FOUNDATION	ROCKVILLE	MD
0141	GENSTAR STONE PRODUCTS	WHITE MARSH	MD
0154	ARUNDEL	BALTIMORE	MD
0501	BALTIMORE GAS & ELECTRIC	LUSBY	MD
0504	NAVAL MEDICAL COMMAND	BETHESDA	MD
0273	MET ELECTRICAL TESTING	BALTIMORE	MD
0121	SPARREL ENGINEERING RESEARCH	DAMARISCOTTA	ME
0522	CONSUMERS POWER	JACKSON	MI
0529	DETROIT EDISON	NEWPORT	MI

0188	TWIN CITY TESTING AND ENGINEERING	ST. PAUL	MN
0271	AMADOR	ALMELUND	MN
0502	UNION ELECTRIC	FULTON	MO
0503	MALLINCKRODT DIAGNOSTICS	MARYLAND HEIGHTS	MO
0546	MISSISSIPPI POWER & LIGHT	PORT GIBSON	MS
0505	DUKE POWER	HUNTERSVILLE	NC
0517	HARRIS ENERGY & ENVIRONMENTAL CENTER	NEW HILL	NC
0525	OMAHA PUBLIC POWER DISTRICT	OMAHA	NE
0105	UNITED STATES TESTING	HOBOKEN	NJ
0266	UNITED STATES TESTING	HOBOKEN	NJ
0218	APACHE BUILDING PRODUCTS	LINDEN	NJ
0531	PUBLIC SERVICE ELECTRIC & GAS	HANCOCKS BRIDGE	NJ
0533	TEL EDYNE ISOTOPES	WESTWOOD	NJ
0543	NEW HAMPSHIRE YANKEE, SEABROOK STA	SEABROOK	NJ
0260	BASF STYROPOR TECHNICAL CENTER	JAMESBURG	NJ
0275	AT&T INFORMATIONS SYSTEMS EMC LAB	HOLMDDEL	NJ
0515	EBERLINE ANALYTICAL/THERMO ELECTRON	ALBUQUERQUE	NM
0264	SHELTON RESEARCH	SANTA FE	NM
0128	OWENS CORNING FIBERGLAS	DELMAR	NY
0177	ATLANTIC TESTING LABS	CICERO	NY
0229	GOLD BOND BUILDING PRODUCTS	BUFFALO	NY
0237	PITTSBURGH TESTING LABORATORY	SYRACUSE	NY
0252	O/L LABORATORIES	NEW YORK	NY
0508	NEW YORK POWER AUTHORITY-INDIAN POINT	BUCHANAN	NY
0511	NEW YORK POWER AUTHORITY-LYCOMING	LYCOMING	NY
0514	ROCHESTER GAS & ELECTRIC	ONTARIO	NY
0538	CON EDISON INDIAN POINT	BUCHANAN	NY
0252	O/L LABORATORIES	NEW YORK	NY
0267	RETLIF TESTING LABORATORIES	RONKONKOMA	NY
0255	UNDERWRITERS LABORATORIES	MELVILLE	NY
0103	DOW CHEMICAL	GRANVILLE	OH
0109	OWENS CORNING FIBERGLAS	GRANVILLE	OH
0129	OWENS CORNING FIBERGLAS	NEWARK	OH
0131	H.C. NUTTING	CINCINNATI	OH
0161	ENGINEERING TESTING LAB	AKRON	OH
0206	R.W. SIDLEY	THOMPSON	OH
0107	UNITED STATES TESTING	TULSA	OK
0247	HOLLYTEX CARPET MILL	ANADARKO	OK
0240	OMNI ENVIRONMENTAL SERVICES	BEAVERTON	OR
0244	NORTHWEST TESTING LABS	PORTLAND	OR
0101	CERTAINTEEO	BLUE BELL	PA
0146	AMERICAN TESTING LABS	LANCASTER	PA
0201	PTL-INSPECTORATE	PITTSBURGH	PA
0228	ARMSTRONG WORLD INDUSTRIES	LANCASTER	PA
0257	GAI CONSULTANTS	MONROEVILLE	PA
0510	GPU NUCLEAR CORP.	MIDDLETOWN	PA
0521	DUQUESNE LIGHT	SHIPPINGPORT	PA
0280	R & B ENTERPRISES	WEST CONSHOHOCKEN	PA
0245	R.F. GEISSEY AND ASSOC	EAST PROVIOENCE	RI
0178	BIGELOW SANFORD	GREENVILLE	SC
0547	SOUTH CAROLINA ELECTRIC & GAS	COLUMBIA	SC
0130	OWENS CORNING FIBERGLAS	WAXAHACHIE	TX
0160	CHISHOLM TRAIL TESTING & ENGINEERING	DECATUR	TX
0196	TEXAS TESTING LABORATORY	DALLAS	TX
0208	GULF COAST TESTING LABORATORY	CORPUS CHRISTI	TX
0253	GIFFORD-HILL	DE SOTO	TX
0513	GULF NUCLEAR, INC.	WEBSTER	TX
0519	HOUSTON LIGHTING & POWER	HOUSTON	TX
0528	TEXAS UTILITIES GENERATING	GLEN ROSE	TX
0195	GARCO TESTING LABORATORY	MURRAY	UT
0272	COMMUNICATION CERTIFICATION LAB	SALT LAKE CITY	UT
0151	HARDWOOD PLYWOOD MANUFACTURERS ASSOC	RESTON	VA
0230	VIRGINIA CONCRETE LABORATORY	SPRINGFIELD	VA
0233	STS CONSULTANTS	FAIRFAX	VA
0520	VIRGINIA ELECTRIC & POWER, MINERAL	MINERAL	VA
0523	VIRGINIA ELECTRIC & POWER, SURRY	SURRY	VA
0545	WASHINGTON PUBLIC POWER SUPPLY SYSTEM	RICHLAND	WA
0265	WEYERHAEUSER TECHNOLOGY CENTER	TACOMA	WA
0223	PFS CORPORATION	MADISON	WI
0239	HOUGH ACOUSTICAL LABORATORY	JAMESVILLE	WI
0249	WARNOCK HERSEY INT'L	MIDDLETON	WI
0279	GEOANALYTICS	QUEZON CITY, PHILIPPINES	

Index D. Summary of Accredited Laboratories by Test Method and Field of Testing.

ACOUSTICS

NVLAP Test Method Code Number

NVLAP Lab Code	E E E E E	E E E E E	P P P P P	P P P P P	P P P P P	P P P P P	P P P P P
	0 0 0 0 0	2 2 2 2 2	0 0 0 0 0	0 0 0 0 1	1 1 1 1 1	1 1 1 1 2	1 1 1 1 2
	1 2 3 4 5	1 2 3 4 5 6	1 2 3 4 5	6 7 8 9 0	1 2 3 4 5	6 7 8 9 0	1 2 3 4 5
0111	o		o	o			
0123			o o o	o			
0227	o		o o o	o			o
0228			o o				
0229	o		o o				
0239			o o				
0256			o o				

CARPET

NVLAP Test Method Code Number

NVLAP Lab Code	B	C	C	D	D	E	F	F	F	F	S	S	S
	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	2	1	2	1	1	2	3	4	5	1	2
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0105							o						
0106	o		o			o		o	o				
0108	o	o	o	o	o	o		o	o	o	o	o	o
0115							o		o				
0120	o	o	o	o	o	o		o	o	o	o	o	o
0139	o	o	o	o	o			o	o			o	o
0149		o	o	o	o			o			o	o	o
0151							o		o				
0156	o	o	o	o	o			o				o	o
0160		o	o	o	o			o				o	o
0163		o	o	o	o			o				o	o
0166	o	o	o	o	o	o		o	o	o	o	o	o
0178	o	o	o	o	o	o		o	o	o	o	o	o
0190		o	o	o	o							o	o
0193			o	o	o			o				o	o
0197			o	o	o			o				o	o
0220									o	o		o	o
0221		o	o	o	o			o	o			o	o
0243									o				
0247					o			o			o	o	o
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	B	C	C	D	D	E	F	F	F	F	S	S	S
	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	2	1	2	1	1	2	3	4	5	1	2

CONCRETE

NVLAP Test Method Code Number

DOSIMETRY

NVLAP Lab Code	ANSI N13.11 Categories (see note)							
	I	II	III	IV	V	VI	VII	VIII
0501	o		o	o		o	o	
0502	o				o	o	o	
0503						o		
0504	o	o	o	o	o	o	o	o
0505	o		o	o		o		
0506	o	o	o	o	o	o	o	
0508	o	o	o	o	o	o	o	
0509	o	o	o	o	o	o	o	
0510	o	o	o	o	o	o	o	
0511	o				o	o		
0512	o	o	o	o	o	o	o	
0513	o	o	o	o	o	o	o	
0514	o	o	o	o	o	o	o	
0515	o	o	o	o	o	o	o	
0516	o	o	o	o	o	o	o	
0517	o	o	o	o	o	o	o	
0518	o	o	o	o	o	o	o	
0519	o				o			
0520	o			o		o		
0521	o	o	o	o	o	o	o	
0522	o		o	o		o	o	
0523	o		o	o		o		
0524	o	o	o	o	o	o	o	
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0534	o	o	o	o	o	o	o	
0536	o	o	o	o	o	o	o	
0537	o	o	o	o	o	o	o	
0538	o	o	o	o	o	o	o	
0539	o	o	o	o	o	o	o	
0540	o			o	o	o	o	
0541	o	o	o	o	o	o	o	
0542								
0543	o	o	o	o	o	o	o	
0544	o	o	o	o	o	o	o	
0545	o			o		o	o	
0546	o	o	o	o	o	o	o	
0547	o	o	o	o	o	o	o	

ELECTROMAGNETICS

NVLAP Lab Code	NVLAP Test Method Code Number
0255	C R T T T 0 0 0 0 0
0267	1 1 1 2 3
0268	-----
0269	0 0
0270	0 0 0 0
0271	0 0 0 0
0272	0 0 0 0 0
0273	0 0 0 0 0
0274	0 0 0 0 0
0275	0 0
0276	0 0
0277	0 0 0 0 0
0278	0 0 0 0 0
0280	0 0 0 0

	C R T T T 0 0 0 0 0
	1 1 1 2 3

NOTE: Processors may be accredited for more than one dosimeter type. See the Scope of Accreditation for each processor in the last section of the Directory for details.

INSULATION

NVLAP Test Method Code Number

continued next page

INSULATION (continued)

NVLAP Test Method Code Number

NVLAP Lab Code	F	F	F	F	F	F	S	S	S	S	S	S	S	S	S	S	S	T	T	T	T	T	T	V	V	V	V						
	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	0	0	0						
	1	2	5	6	7	8	1	2	3	4	5	6	7	8	9	0	1	2	3	4	1	4	5	6	9	0	2	3	4	5	6		
0101	o	o	o	o	o									o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o			
0103						o								o	o							o		o									
0104																								o	o	o	o	o	o	o			
0105	o																							o									
0106	o																							o									
0107							o																	o									
0109	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o			
0111	o						o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o		
0113																								o	o	o	o	o	o	o	o	o	
0115	o																							o	o	o	o	o	o	o	o	o	
0116	o																							o	o	o	o	o	o	o	o	o	
0117	o																							o	o	o	o	o	o	o	o	o	
0120																								o	o	o	o	o	o	o	o	o	
0121																								o	o	o	o	o	o	o	o	o	
0122																								o	o	o	o	o	o	o	o	o	
0123	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o			
0124																								o									
0125																								o									
0126																								o									
0128																								o									
0129																								o									
0130																								o									
0142						o																	o	o									
0175																								o	o								
0188																								o									
0210																								o	o								
0216																								o	o								
0218																								o	o								
0226																								o	o	o	o	o	o	o	o	o	o
0248																								o	o	o	o	o	o	o	o	o	o
0250																								o	o	o	o	o	o	o	o	o	o
0251						o	o																o	o	o	o	o	o	o	o	o	o	
0258																								o	o	o	o	o	o	o	o	o	o
0260																								o	o	o	o	o	o	o	o	o	o
0261																								o	o	o	o	o	o	o	o	o	o
0282																								o	o	o	o	o	o	o	o	o	o
	F	F	F	F	F	F	S	S	S	S	S	S	S	S	S	S	S	T	T	T	T	T	T	V	V	V	V	V					
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	1	2	5	6	7	8	1	2	3	4	5	6	7	8	9	0	1	2	3	4	1	4	5	6	9	0	2	3	4	5	6		

PAINTS AND RELATED COATINGS AND MATERIALS

NVLAP Test Method Code Number

NVLAP
Lab
Code

A A A A A	A A A A A	A A A A A	A A A A A	A A A A A	A A A A A	A A A A A
0 0 0 0 0	0 0 0 0 1	1 1 1 1 1	1 1 1 1 2	2 2 2 2 2	2 2 2 2 2	
1 2 3 4 5	6 7 8 9 0	1 2 3 4 5	6 7 8 9 0	1 2 3 4 5	6 7 8 9	
-----	-----	-----	-----	-----	-----	-----
0252	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0
0263	0 0	0 0	0 0	0 0 0 0 0	0 0	0 0
0266	0 0 0 0 0	0 0	0 0 0	0 0 0	0 0	0
0281	0	0 0	0	0	0	0

NVLAP
Lab
Code

B B B B B	B B B B B	B B B B B	B B B B B	B B B B B	B B B B B	B B B B B	B B B B B	B B B B B	B B B B B	B B B B B	B B B B B	B B B B B
0 0 0 0 0	0 0 0 0 1	1 1 1 1 1	1 1 1 1 2	2 2 2 2 2	2 2 2 2 2	2 2 2 2 3	3 3 3 3 3	3 3 3 3 4	4 4			
1 2 3 4 5	6 7 8 9 0	1 2 3 4 5	6 7 8 9 0	1 2 3 4 5	6 7 8 9 0	1 2 3 4 5	6 7 8 9 0	1 2 3 4 5	6 7 8 9 0	1 2		
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0252	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
0263	0 0 0 0	0 0 0	0 0 0	0 0 0 0 0	0	0 0 0	0	0 0 0	0	0	0	0 0 0
0266	0 0 0 0 0	0 0 0 0	0 0 0	0 0 0	0	0 0 0 0 0	0 0	0 0 0	0	0	0	0 0 0
0281	0	0 0 0 0	0 0			0		0 0	0 0 0	0 0	0 0	0 0 0

NVLAP
Lab
Code

C C C C C	C C C C C	C C C C C	C C C C C	C C C C C	C C C C C	C C C C C	C C C C C	C C C C C	C C C C C	C C C C C	C C C C C
0 0 0 0 0	0 0 0 0 1	1 1 1 1 1	1 1 1 1 2	2 2 2 2 2	2 2 2 2 2	2 2 2 2 3	3 3 3 3 3	3 3 3 3 4			
1 2 3 4 5	6 7 8 9 0	1 2 3 4 5	6 7 8 9 0	1 2 3 4 5	6 7 8 9 0	1 2 3 4 5	6 7 8 9 0	1 2 3 4 5	6 7 8 9 0		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
0252	0	0 0 0 0	0 0		0		0 0 0 0 0		0	0 0	
0263	0	0	0 0	0 0 0	0 0	0	0 0 0	0 0 0	0	0 0 0	0
0266	0	0	0	0 0	0	0	0 0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0
0281								0 0 0			

NVLAP
Lab
Code

D D D D D	D D D D D	D D D D D
0 0 0 0 0	0 0 0 0 1	1 1 1 1 1
1 2 3 4 5	6 7 8 9 0	1 2 3 4 5 6
-----	-----	-----
0252	0 0 0 0 0	0 0 0 0 0
0263	0	0 0 0
0266	0 0	0 0
0281		

PAPER AND RELATED PRODUCTS

NVLAP Test Method Code Number

NVLAP Lab Code	E E E E E E E E E E E E E E E E G G G G
	0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 2 2 0 0 0 0
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5
-----	-----
0259	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0265	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

NVLAP Lab Code	H H H H H H H H H H H H H H H H H H H H H H H H
	0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
-----	-----
0259	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0265	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

SEALS AND SEALANTS

NVLAP Test Method Code Number

NVLAP Lab Code	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0
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0252	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

STOVE

NVLAP Test Method Code Number

NVLAP Lab Code	E E E E E E E E E E E F F F F F F F F F F F F F F F F F M M M M M
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0116	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0117	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0223	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0225	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0240	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0244	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0245	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0249	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0264	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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1 2 3 4 5 6 7 8 9 0 1 2 3 1 2 4 5 6 7 8 9 0 1 2 4 6 7 8 9 0 1 2 3 4 5 6	

INDEX E. ACCREDITED LABORATORIES AND TEST METHODS FOR WHICH
THEY ARE ACCREDITED

NVLAP LAB CODE 0101

CERTAINTEED CORPORATION
 INSULATION GROUP, R & D LABORATORY
 1400 Union Meeting Road, Blue Bell, PA 19422
 Dr. W. Francis Olix Phone: 215-341-6713

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/C02	16 CFR-Part 1209.5	Corrosiveness; Cellulosic fiber (loose-fill)
01/C03	California Energy Commission tests for insulating materials: Corrosiveness - Mineral fiber blankets and loose-fill	
01/D01	ASTM C136	Sieve or screen analysis
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/D26	16 CFR-Part 1209.4	Settled density; Cellulosic fiber (loose-fill)
01/F01	TAPPI T461	Flame Resistance; Paper and paperboard
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace
01/F07	16 CFR-Part 1209.6	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	16 CFR-Part	Smoldering combustion; Cellulosic fiber (loose-fill)
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/S08	ASTM C446	Breaking load/modulus of rupture; Preformed pipe insulation
01/S09	ASTM D781	Puncture test; Paperboard and fiberboard
01/S10	ASTM D828	Tensile breaking strength; Paper and paperboard
01/S12	California Energy Commission tests for insulating materials: Bond strength - Spray applied cellulose	
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)

NVLAP LAB CODE 0103

DOW CHEMICAL USA, FOAM PRODUCTS RESEARCH
 PRODUCT EVALUATION GROUP
 P.O. Box 515, Granville, OH 43023
 Mike J. Ennis Phone: 614-587-4215

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D23	ASTM D2842	Water absorption; Rigid cellular plastics
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S07	ASTM C273	Shear test; Sandwich construction
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)

NAHB RESEARCH FOUNDATION, INC.
 627 Southlawn Lane, Rockville, MD 20850
 Hugh Angleton Phone: 301-762-4200

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Standard Guide) Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)

UNITED STATES TESTING COMPANY, INC.
 ENGINEERING SERVICES DIVISION
 291 Fairfield Avenue, Fairfield, NJ 07006
 Rudolph Giglio Phone: 201-575-5252

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07	16 CFR-Part 1209.6	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
03/F01	ASTM E84	Surface Flammability (Carpets)
03/F04	ASTM E648	Radiant Panel (Carpet)

UNITED STATES TESTING COMPANY, INC.
 CALIFORNIA DIVISION
 5555 Telegraph Road, Los Angeles, CA 90040
 Bernd Givon Phone: 213-723-7181

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/C02	16 CFR-Part 1209.5 (Formerly HH-I-515 Part 4.8.5)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/D28	ASTM D2126	Response to thermal and humid aging (proc. G); Rigid cellular plastics
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/F01	ASTM E84	Surface Flammability
03/F03	16 CFR Part 1630	Methenamine Pill Test (FF 1-70) Sec.1630.4
03/F04	ASTM E648	Radiant Panel (Carpet)
03/F05	ASTM E662	Optical Density of Smoke Generated by Solid Materials

NVLAP LAB CODE 0107

UNITED STATES TESTING COMPANY, INC.
TULSA DIVISION
1341 North 108th East Avenue, Tulsa, OK 74116
Carl Yoder Phone: 918-437-8333

Accreditation Renewal Date: January 1, 1988

NVLAP Code	Designation	Short Title
01/C02	16 CFR-Part 1209.5 (Formerly HH-I-515 Part 4.8.5)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D26	16 CFR-Part 1209.4 (Formerly HH-I-515, Part 4.8.1)	Settled density; Cellulosic fiber (loose-fill)
01/F08	16 CFR-Part 1209.7 (Formerly HH-I-515, Part 4.8.8 Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
01/V05	ASTM C739 (sec.11) (Formerly HH-I-515, Part 4.8.6)	Fungus; Cellulosic fiber (loose-fill)
01/V06	ASTM C739 (sec. 15) (Formerly HH-I-515, Part 4.8.9)	Starch; Cellulosic fiber (loose-fill)

NVLAP LAB CODE 0108

CERTIFIED TESTING LABORATORIES, INC.
1105 Riverbend Drive, P.O. Box 2041, Dalton, GA 30720
John H. Frank Phone: 404-226-1400

Accreditation Renewal Date: January 1, 1988

NVLAP Code	Designation	Short Title
03/B01	UM44d (Table 5)	Attached Cushion Tests
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/E01	AATCC 134/CRI 102	Electrostatic Propensity of Carpets
03/F03	16 CFR Part 1630 (FF 1-70) Sec.1630.4	Methamphetamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)
03/F05	ASTM E662	Optical Density of Smoke Generated by Solid Materials
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
03/S02	ASTM D2646, sec. 7.	Testing Backing Fabrics, Breaking Load
03/S03	ASTM D3936	Delamination Strength of Secondary Backing of Pile Floor Coverings

NVLAP LAB CODE 0109

OWENS-CORNING FIBERGLAS CORPORATION
TECHNICAL CENTER LABORATORY
P.O. Box 415, Route 16, Granville, OH 43023
William M. Edmunds Phone: 614-587-7024

Accreditation Renewal Date: January 1, 1988

NVLAP Code	Designation	Short Title
01/C01	ASTM C739 (sec. 9)	Corrosiveness; Cellulosic fiber (loose-fill)
01/C03	California Energy Commission tests for insulating materials:	
01/D01	ASTM C136	Corrosiveness - Mineral fiber blankets and loose-fill Sieve or screen analysis
01/D02	ASTM C167	Thickness and density; Blanket and batt

01/D03	ASTM C209 (sec. 6)	Thickness; Board (cellulosic fiber)
01/D04	ASTM C209 (sec. 13)	Water absorption, 2 hour;
01/D05	ASTM C209 (sec.13) by D1037 (sec. 100-106)	Water absorption, 24 hour; Board (cellulosic fiber)
01/D06	ASTM C209 (sec. 14) by D1037 (sec. 107-110)	Linear expansion; Board (cellulosic fiber)
01/D07	ASTM C272	Density; Preformed block insulation
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D11	ASTM C356	Linear shrinkage; Soaking heat; Preformed high temperature insulation
01/D12	ASTM C411	Hot-surface performance; High temperature insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/D15	ASTM D756	Weight and shape changes; Accelerated service (proc. A); Plastics
01/D16	ASTM D756	Weight and shape changes; Accelerated service (proc. B); Plastics
01/D17	ASTM D756	Weight and shape changes; Accelerated service (proc. E); Plastics
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D19	ASTM D2126	Response to thermal and humid aging (proc. B); Rigid cellular plastics
01/D20	ASTM D2126	Response to thermal and humid aging (proc. D); Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D22	ASTM D2126	Response to thermal and humid aging (proc. F); Rigid cellular plastics
01/D23	ASTM D2842	Water absorption; Rigid cellular plastics
01/D24	ASTM C739 (sec. 12)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/D28	ASTM D2126	Response to thermal and humid aging (proc. G); Rigid cellular plastics
01/D29	California Energy Commission tests for insulating materials:	
01/F02	ASTM E84	Installed compressed thickness
01/F05	ASTM E136	Surface burning characteristics; Building materials
01/F07	16 CFR-Part 1209.6	Behavior of Materials in a Vertical Tube Furnace Critical radiant flux; (formerly HH-I-515, Part 4.8.7) Radiant Panel (cellulosic fiber,
01/F08	16 CFR-Part 1209.7 (Formerly HH-I-515, Part 4.8.8)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S03	ASTM C209 (sec.9)	Transverse strength; Board (cellulosic fiber)
01/S04	ASTM C209 (sec. 10)	Deflection at specified load; Board (cellulosic fiber)
01/S05	ASTM C209 (sec. 11)	Tensile strength; Parallel to surface; Board (cellulosic fiber)
01/S06	ASTM C209 (sec. 12)	Tensile strength; Perpendicular to surface
01/S07	ASTM C273	Shear test; Sandwich construction
01/S08	ASTM C446	Breaking load/modulus of rupture; Preformed pipe insulation
01/S09	ASTM D781	Puncture test; Paperboard and fiberboard
01/S10	ASTM D828	Tensile breaking strength; Paper and paperboard
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V03	ASTM DT487	Mildew (fungus) resistance; Paper and paperboard
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
01/V05	ASTM C739 (sec. 11) (Formerly HH-I-515, Part 4.8.6)	Fungus; Cellulosic fiber (loose-fill)
01/V06	ASTM C739 (sec. 15) (Formerly HH-I-515, Part 4.8.9)	Starch; Cellulosic fiber (loose-fill)

NVLAP LAB CODE 0111

JIM WALTER RESEARCH CORPORATION
 10301 9th Street North, St. Petersburg, FL 33702
 John E. Sheridan Phone: 813-576-4171

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/D03	ASTM C209 (sec. 6)	Thickness; Board (cellulosic fiber)
01/D04	ASTM C209 (sec. 13)	Water absorption, 2 hour;
01/D05	ASTM C209 (sec. 13) by D1037 (sec. 100-106)	Water absorption, 24 hour; Board (cellulosic fiber)
01/D06	ASTM C209 (sec. 14) by D1037 (sec. 107-110)	Linear expansion; Board (cellulosic fiber)
01/D07	ASTM C272	Water absorption; Core materials
01/D20	ASTM D2126	Response to thermal and humid aging (proc. D); Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D28	ASTM D2126	Response to thermal and humid aging (proc. G); Rigid cellular plastics
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S03	ASTM C209 (sec. 9)	Transverse strength; Board (cellulosic fiber)
01/S04	ASTM C209 (sec. 10)	Deflection at specified load; Board (cellulosic fiber)
01/S05	ASTM C209 (sec. 11)	Tensile strength; Parallel to surface; Board (cellulosic fiber)
01/S06	ASTM C209 (sec. 12)	Tensile strength; Perpendicular to surface
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
08/P03	ASTM C423	Sound Absorption and Sound Absorption Coefficients
08/P06	ASTM E90	Airborne Sound Transmission Loss of Building Partitions
08/E21	AMA-1-II	Ceiling Sound Transmission Test by Two-Room Method

NVLAP LAB CODE 0113

DYNATECH R/D COMPANY
 THERMOPHYSICS LABORATORY
 99 Erie Street, Cambridge, MA 02139
 Andre O. Desjarlais Phone: 617-868-8050

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

FACTORY MUTUAL RESEARCH CORPORATION
 1151 Boston-Providence Turnpike, Norwood, MA 02062
 William F. Maroni Phone: 617-762-4300

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/C02	16 CFR-Part 1209.5 (Formerly HH-I-515 part 4.8.5)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D26	16 CFR-Part 1209.4 (Formerly HH-I-515, part 4.8.1)	Settled density; Cellulosic fiber (loose-fill)
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07	16 CFR-Part 1209.6 (Formerly HH-I-515, part 4.8.7)	Critical radiant flux; Radiant Panel (cellulosic fiber)
01/F08	16 CFR-Part 1209.7 (Formerly HH-I-515, part 4.8.8)	Smoldering combustion; Cellulosic fiber (loose-fill)
03/F01	ASTM E84	Surface Flammability
03/F04	ASTM E648	Radiant Panel (Carpet)

UNDERWRITERS LABORATORIES INC.
 333 Pfingsten Road, Northbrook, IL 60062
 Steve Mazzoni Phone: 312-272-8800

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/C01	ASTM C739 (sec. 9)	Corrosiveness; Cellulosic fiber (loose-fill)
01/C02	16 CFR-Part 1209.5	Corrosiveness; Cellulosic fiber (loose-fill)
01/D01	ASTM C136	Sieve or screen analysis
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D03	ASTM C209 (sec. 6)	Thickness; Board (cellulosic fiber)
01/D04	ASTM C209 (sec.13)	Water absorption, 2 hour;
01/D05	ASTM C209 (sec. 13) by D1037 (sec. 100-106)	Water absorption, 24 hour; Board (cellulosic fiber)
01/D06	ASTM C209 (sec. 14) by D1037 (sec. 107-110)	Linear expansion; Board (cellulosic fiber)
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/D14	ASTM C520	Density; Granular loose-fill
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D24	ASTM C739 (sec. 12)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	16 CFR-Part 1209.4 (Formerly HH-I-515, Part 4.8.1)	Settled density; Cellulosic fiber (loose-fill)
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07	16 CFR-Part 1209.6 (Formerly HH-I-515, Part 4.8.7)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	16 CFR-Part 1209.7 (Formerly HH-I-515, Part 4.8.8)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S03	ASTM C209 (sec. 9)	Transverse strength; Board (cellulosic fiber)
01/S04	ASTM C209 (sec. 10)	Deflection at specified load; Board (cellulosic fiber)
01/S05	ASTM C209 (sec. 11)	Tensile strength; Parallel to surface; Board (cellulosic fiber)
01/S06	ASTM C209 (sec. 12)	Tensile strength; Perpendicular to surface
01/S08	ASTM C446	Breaking load/modulus of rupture; Preformed pipe insulation
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V02	TAPPI T419	Starch in paper; Qualitative test
01/V03	TAPPI T487	Mildew (fungus) resistance; Paper and paperboard
01/V05	ASTM C739 (sec. 11) (formerly HH-I-515, Part 4.8.6)	Fungus; Cellulosic fiber (loose-fill)

01/V06 ASTM C739 (sec. 15) Starch; Cellulosic fiber
 (formerly HH-I-515, Part 4.8.9) (loose-fill)

PHYSICAL/FIRE TEST GROUP (04/F00)

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Section of CSA Standard B 366.2-M1984 (ULC s627-M1984) <u>(April, 1984)</u>			
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04/F12	Temperature Measurement	7.3	
04/F14	Radiant Fire Test	7.5	
04/F16	Brand Fire Test	7.6	
04/F17	Flash Fire Test	7.7	
04/F18	Strength Tests	7.12	
04/F19	Stability Test	7.10	
04/F20	Glazing Test	7.11	

MOBILE HOME TEST GROUP (04/M00)

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
Section of CSA Standard B 366.2-M1984 (ULC s627-M1984) <u>(April, 1984)</u>			
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04/M05	Toxic Gas	12	
04/M06	Drop Test	12	

ELECTRICAL TEST GROUP (04/E00)

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
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04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
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04/E08	Power Cord Strain Relief	40	40

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04/E12	Dielectric Withstand	6.5	6.3
04/E13	Power Cord Strain Relief	6.9	6.4

NVLAP LAB CODE 0117

UNDERWRITERS LABORATORIES INC.
SANTA CLARA, CALIFORNIA LABORATORY
1655 Scott Boulevard, Santa Clara, CA 95050
Douglas Anderson Phone: 408-985-2400

Accreditation Renewal Date: January 1, 1988

NVLAP Code	Designation	Short Title
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/D26	16 CFR-Part 1209.4	Settled density; Cellulosic fiber (loose-fill)
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07	16 CFR-Part 1209.6	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	16 CFR-Part 1209.7	Smoldering combustion; Cellulosic fiber (loose-fill)

PHYSICAL/FIRE TEST GROUP (04/F00)

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/F01	Test Installation	8	8
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04/F10	Glazing Test	14	15

Section of CSA Standard B 366.2-M1984
(ULC s627-M1984)
(April, 1984)

04/F11	Test Installation	7.2
04/F12	Temperature Measurement	7.3
04/F14	Radiant Fire Test	7.5
04/F16	Brand Fire Test	7.6
04/F17	Flash Fire Test	7.7
04/F18	Strength Tests	7.12
04/F19	Stability Test	7.10
04/F20	Glazing Test	7.11

MOBILE HOME TEST GROUP (04/M00)

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17

Section of CSA Standard B 366.2-M1984
 (ULC s627-M1984)
(April, 1984)

04/M04	Test Installation	12
04/M05	Toxic Gas	12
04/M06	Drop Test	12

ELECTRICAL TEST GROUP (04/E00)

NVLAP Code	Short Title	Section of UL 737	Section of UL 1482
		5th Edition (November 9, 1982)	2nd Edition (January 24, 1983)
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40
		Section of CSA C 22.2 No. 3 1979	Section of CSA C 22.2 No. 113 1982
04/E09	Temperature Measurements, Electrical Components	6.4	6.2
04/E10	Temperature Test, Electrical Components	6.4	6.2
04/E11	Leakage Current	6.8	6.3
04/E12	Dielectric Withstand	6.5	6.3
04/E13	Power Cord Strain Relief	6.9	6.4

NVLAP LAB CODE 0120

COMMERCIAL TESTING COMPANY
 1215 South Hamilton Street, P.O. Box 985, Dalton, GA 30720
 Jonathan Jackson Phone: 404-278-3935

Accreditation Renewal Date: January 1, 1988

NVLAP Code	Designation	Short Title
01/C02	16 CFR-Part 1209.5 (formerly HH-I-515 part 4.8.5)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D26	16 CFR-Part 1209.4 (formerly HH-I-515, Part 4.8.1)	Settled density; Cellulosic fiber (loose-fill)
01/F07	16 CFR-Part 1209.6 (formerly HH-I-515, Part 4.8.7)	Critical radiant flux; Radiant panel (cellulosic fiber)
01/F08	16 CFR-Part 1209.7 (formerly HH-I-515, Part 4.8.8)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
03/B01	UM44d (Table 5)	Attached Cushion Tests
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	ODD-C-95A	Shrinkage
03/F01	ASTM E84	Surface Flammability
03/F03	16 CFR Part 1630	Methenamine Pill Test (FF-1-70) Sec. 1630.4
03/F04	ASTM E648	Radiant Panel (Carpet)
03/F05	ASTM E662	Optical Density of Smoke Generated by Solid Materials
03/S01	ASTM D1335	Tuft Bind of Floor Coverings

03/S02 ASTM D2646, sec. 7 Testing Backing Fabrics, Breaking Load
 03/S03 ASTM D3936 Delamination Strength of Secondary
 Backing of Pile Floor Coverings

NVLAP LAB CODE 0121

SPARRELL ENGINEERING RESEARCH CORPORATION
 Bristol Road, P.O. Box 130, Damariscotta, ME 04543
 James K. Sparrell Phone: 207-563-3224

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0122

TECHNICAL MICRONICS CONTROL, INC.
 SCIENTIFIC SERVICES, INC.
 P.O. Box 1330, 210 Wynn Drive, Huntsville, AL 35807
 Ms. Bharathi Ujjani Phone: 205-837-4430

Accreditation Renewal Date: April 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/C02	16 CFR-Part 1209.5 (formerly HH-I-515 part 4.8.5)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D26	16 CFR-Part 1209.4 (formerly HH-I-515, part 4.8.1)	Settled density; Cellulosic fiber (loose-fill)
01/F07	16 CFR-Part 1209.6 (formerly HH-I-515, part 4.8.7)	Critical radiant flux; Radiant panel Cellulosic fiber)
01/F08	16 CFR-Part 1209.7 (formerly HH-I-515, part 4.8.8)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V05	ASTM C739 (sec.11) (formerly HH-I-515, part 4.8.6)	Fungus; Cellulosic fiber (loose-fill)

NVLAP LAB CODE 0123

MANVILLE CORPORATION, R & D CENTER
 P.O. Box 5108, Denver, CO 80217
 Joseph P. Ferraro Phone: 303-978-5553

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D03	ASTM C209 (para. 6 in 72 version)	Thickness; Board (cellulosic fiber)
01/D04	ASTM C209	Water absorption, 2 hour;
01/D05	ASTM C209 (para. 13 in 72 version) by D1037 (para. 100-106 in 78 version)	Water absorption, 24 hour; Board (cellulosic fiber)
01/D06	ASTM C209 (para. 14 in 72 version) by D1037 (para. 107-110 in 72 version)	Linear expansion; Board (cellulosic fiber)
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D11	ASTM C356	Linear shrinkage; Soaking heat; Preformed high temperature insulation
01/D12	ASTM C411	Hot-surface performance; High temperature insulation

01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/F01	TAPPI T461	Flame Resistance; Paper and paperboard
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S03	ASTM C209 (para. 9 in 72 version)	Transverse strength; Board (cellulosic fiber)
01/S04	ASTM C209 (para. 10 in 72 version)	Deflection at specified load; Board (cellulosic fiber)
01/S05	ASTM C209 (para. 11 in 72 version)	Tensile strength; Parallel to surface; Board (cellulosic fiber)
01/S06	ASTM C209 (para. 12 in 72 version)	Tensile strength; Perpendicular to surface
01/S08	ASTM C446	Breaking load/modulus of rupture; Preformed pipe insulation
01/S09	ASTM D781	Puncture test; Paperboard and fiberboard
01/S10	ASTM D828	Tensile breaking strength; Paper and paperboard
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
08/P02	ASTM C384	Impedance and Absorption of Acoustical Materials
08/P03	ASTM C423	Sound Absorption and Sound Absorption Coefficients
08/P04	ASTM C522	Airflow Resistance of Acoustical Materials
08/P06	ASTM E90	Airborne Sound Transmission Loss of Building Partitions

NVLAP LAB CODE 0124

OWENS-CORNING FIBERGLAS CORPORATION
PLANT LABORATORY
Box 89, 960 Central Expressway, Santa Clara, CA 95052
J.P. Tetreault Phone: 408-727-3535

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0125

OWENS-CORNING FIBERGLAS CORPORATION
PLANT LABORATORY
700 McLaren Road, Fairburn, GA 30213
C. J. Jackson Phone: 404-969-2915

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

OWENS-CORNING FIBERGLAS CORPORATION
 PLANT LABORATORY
 300 Sunshine Road, Kansas City, KS 66115
 G.D. Growcock Phone: 913-281-2811

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

OWENS-CORNING FIBERGLAS CORPORATION
 PLANT LABORATORY
 P.O. Box 89, Delmar, NY 12054
 R.M. Rossi Phone: 518-439-9341

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

OWENS-CORNING FIBERGLAS CORPORATION
 PLANT LABORATORY
 Case Avenue, Newark, OH 43055
 P. D. Shull Phone: 614-345-3441

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

OWENS-CORNING FIBERGLAS CORPORATION
 PLANT LABORATORY
 P.O. Box 837, I-35 East, Waxahachie, TX 75165
 Mark Kwasowski Phone: 214-937-1340

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0131

THE H. C. NUTTING COMPANY
4120 Airport Road, P.O. Box C, Cincinnati, OH 45226
R. Jack Scott Phone: 513-321-5816

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31	Making and Curing Concrete Test Specimens in the field
	ASTM C172	Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric)
	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
	ASTM C173*	Air Content Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

NVLAP LAB CODE 0133

THE WALT KEELER COMPANY, INC.
826 East Lincoln Street, P.O. Box 197, Wichita, KS 67201
Kelly B. Callison Phone: 316-265-0615

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31	Making and Curing Concrete Test Specimens in the field
	ASTM C172	Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric)
	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method

NVLAP LAB CODE 0135

AQUIRRE ENGINEERS, INC.
13276 East Fremont Place, Englewood, CO 80112
Vukoslav E. Aguirre Phone: 303-799-8378

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31	Making and Curing Concrete Test Specimens in the field
	ASTM C172	Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric)
	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
	ASTM C173	Air Content Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C617	Capping Cylindrical Specimens

AMERICAN CARPET LABORATORIES, INC.
 111 West Nashville Street, P.O. Box 357, Ringgold, GA 30736
 Michael D. Connell Phone: 404-935-5672

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
03/B01	UM44d (Table 5)	Attached Cushion Tests
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight Uncoated (Section 8)
03/D02	DDD-C-95A	Pile Weight - Coated (Section 9)
03/F03	16 CFR Part 1630 (FF 1-70) Sec.1630.4 Sec. 1630.4	Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13) Shrinkage Surface Flammability
03/F04	ASTM E648	Test Procedure
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Radiant Panel (Carpet) Tuft Bind of Floor Coverings
03/S02	ASTM D2646, sec. 7.	Textile Test Method - Breaking Strength
03/S03	ASTM D3936	Textile Test Method - Delamination Testing Backing Fabrics, Breaking Load Delamination Strength of Secondary Backing of Pile Floor Coverings Backing of Pile Floor Coverings

GENSTAR STONE PRODUCTS COMPANY
 WHITE MARSH TECHNICAL CENTER
 10300 Pulaski Highway, White Marsh, MD 21162
 Roy K. Heaps Phone: 301-628-4064

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31	Making and Curing Concrete Test Specimens in the field
	ASTM C172	Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric)
	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
	ASTM C173	Air Content Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C617	Capping Cylindrical Specimens

GEOSCIENCE LTD.
 410 South Cedros Avenue, Solana Beach, CA 92075
 Heinz F. Poppendiek Phone: 619-755-9396

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/D08	ASTM C302	Density; Preformed pipe insulation
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box

NVLAP LAB CODE 0146

AMERICAN TESTING LABORATORIES, INC.
 Box 4014, 784 Flory Mill Road, Lancaster, PA 17604
 John S. Kassees Phone: 717-569-0488

Accreditation Renewal Date: April 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31	Making and Curing Test Specimens
	ASTM C172	Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content
	ASTM C231	Air Content-Pressure Method
	ASTM C173	Content-Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

NVLAP LAB CODE 0149

E & B CARPET MILLS
 P.O. Box 2047, Dalton, GA 30720
 Robert H. Davis Phone: 404-272-7783

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/F03	16 CFR Part 1630 (FF-1-70) Sec.1630.4	Methenamine Pill Test
03/S01	ASTM D1335	Tuft Bind of Pile Floor Coverings
03/S02	ASTM D2646, sec. 7.	Testing Backing Fabrics, Breaking Load
03/S03	ASTM D3936	Delamination Strength of Secondary Backing of Pile Floor Coverings

NVLAP LAB CODE 0151

HARDWOOD PLYWOOD MANUFACTURERS ASSOCIATION
 1825 Michael Faraday Drive, Reston, VA 22090
 Gary Gramp Phone: 703-435-2900

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
03/F01	ASTM E84	Surface Flammability
03/F04	ASTM E648	Radiant Panel (Carpet)

THE ARUNDEL CORPORATION
 GREENSPRING LABORATORY
 6806 Greenspring Avenue, Baltimore, MD 21209
 M. Joann Petillo Phone: 301-484-6022

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31	Making and Curing Concrete Test Specimens in the field
	ASTM C172	Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric)
	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
	ASTM C173	Air Content Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C617	Capping Cylindrical Specimens

BIGELOW-SANFORD, INC.
 GEORGIA RUG MILL
 Lyerly Street, Summerville, GA 30747
 Van A. Pullen Phone: 404-857-2421

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
03/B01	UM 44d (Table 5)	Attached Cushion Tests
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/F03	16 CFR Part 1630 (FF-1-70) Sec.1630.4	Methenamine Pill Test
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
03/S03	ASTM D3936	Delamination Strength of Secondary Backing of Pile Floor Coverings

CHISHOLM TRAIL TESTING AND ENGINEERING COMPANY, INC.
 302 South Miller Street, Decatur, TX 76234
 James F. Rosendahl Phone: 817-627-5216

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Woven and Tufted Pile Floor Covering Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)

03/D02	DDD-C-95A	Shrinkage
03/F03	16 CFR Part 1630 (FF-1-70) Sec.1630.4	Methenamine Pill Test
03/S01	ASTM D1335	Tuft Bind of Pile Floor Coverings
03/S02	ASTM D2646, sec. 7.	Testing Backing Fabrics, Breaking Load
03/S03	ASTM D3936	Delamination Strength of Secondary Backing of Pile Floor Coverings

NVLAP LAB CODE 0161

ENGINEERING TESTING LABORATORY
CITY OF AKRON
1420 Triplett Blvd., Bldg #2, Akron, OH 44306
Pawan K. Khaitan Phone: 216-375-2740

Accreditation Renewal Date: July 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Test Specimens Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content Air Content-Pressure Method Content-Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

NVLAP LABCODE 0163

GALAXY CARPET MILLS, INC.
GALAXY TESTING LABORATORY
P.O. Box 800, Industrial Blvd., Chatsworth, GA 30705
Lou Childers Phone: 404-695-9611

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/F03	16 CFR Part 1630 (FF 1-70) Sec. 1630.4	Surface Flammability Test Procedure
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/S02	ASTM D2646, sec. 7.	Testing Backing Fabrics, Breaking Load
03/S03	ASTM D3936	Delamination Strength of Secondary Backing of Pile Floor Coverings

INDEPENDENT TEXTILE TESTING SERVICE, INC.
 P.O. Box 1948, 1503 Murray Avenue, Dalton, GA 30722
 Harry M. Fry Phone: 404-278-3013

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
03/B01	UM44d (Table 5)	Attached Cushion Tests
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A*	Shrinkage
03/E01	AATCC 134/CRI 102	Electrostatic Propensity of Carpets
03/F03	16 CFR Part 1630 (FF 1-70) Sec. 1630.4	Surface Flammability
03/F04	ASTM E648	Test Procedure
03/F05	ASTM E662	Radiant Panel (Carpet)
03/S01	ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Optical Density of Smoke Generated by Solid Materials Tuft Bind of Floor Coverings
03/S02	ASTM D2646, sec. 7.	Textile Test Method - Breaking Strength
03/S03	ASTM D3936	Textile Test Method - Delamination Testing Backing Fabrics, Breaking Load Delamination Strength of Secondary Backing of Pile Floor Coverings

DOW CHEMICAL U.S.A
 NORTH HAVEN LABORATORIES
 410 Sackett Point Road, P.O. Box 430, North Haven, CT 06473
 Herbert G. Nadeau Phone: 203-281-2762

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D28	ASTM D2126	Response to thermal and humid aging (proc. G); Rigid cellular plastics
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

W. R. GRACE & COMPANY
 CONSTRUCTION PRODUCTS DIVISION
 62 Whittemore Avenue, Cambridge, MA 02140
 Michael Dallaire Phone: 617-876-1400

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31	Making and Curing Concrete Test Specimens in the field
	ASTM C172	Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric)
	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
	ASTM C173	Air Content Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

NVLAP LAB CODE 0177

ATLANTIC TESTING LABORATORIES, LIMITED
 CICERO DIVISION
 P.O. Box 356, Route 31 at Route 81, Cicero, NY 13039
 Robert van der Horst Phone: 315-699-5281

Accreditation Renewal Date: April 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31	Making and Curing Test Specimens
	ASTM C172	Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content
	ASTM C231	Air Content-Pressure Method
	ASTM C173	Content-Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

NVLAP LAB CODE 0178

BIGELOW-SANFORD, INC.
 TECHNICAL SERVICES
 P.O. Box 3089, Greenville, SC 29602
 Hamir D. Merchant Phone: 803-299-2630

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
03/B01	UM 44d (Table 5)	Attached Cushion Tests
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/E01	AATCC 134/CRI 102	Electrostatic Propensity of Carpets
03/F03	16 CFR Part 1630 (FF-1-70) Sec.1630.4	Methenamine Pill Test Test Procedure
03/F04	ASTM E648	Radiant Panel (Carpet)
03/F05	ASTM E662	Optical Density of Smoke Generated by Solid Materials
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
03/S02	ASTM D2646, sec. 7.	Testing Backing Fabrics, Breaking Load
03/S03	ASTM D3936	Delamination Strength of Secondary Backing of Pile Floor Coverings

NVLAP LAB CODE 0183

A & H/FLOOD ENGINEERING DIVISION, P.S.I., INC.
 4421 Harrison Street, Hillside, IL 60162
 Charles Siegert Phone: 312-449-0500

Accreditation Renewal Date: April 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31	Making and Curing Test Specimens
	ASTM C172	Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content
	ASTM C231	Air Content-Pressure Method
	ASTM C173	Content-Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

NVLAP LAB CODE 0188

TWIN CITY TESTING AND ENGINEERING LABORATORY, INC.
 662 Cromwell Avenue, St. Paul, MN 55114
 Richard Stehly Phone: 612-645-3601

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/T04	ASTM C236	Thermal conductance; Guarded hot box
02/G01	ASTM C31	Making and Curing Concrete Test Specimens in the field
	ASTM C172	Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric)
	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
	ASTM C173*	Air Content Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C617	Capping Cylindrical Specimens

NVLAP LAB CODE 0190

CORONET CARPETS
 CORONET INDUSTRIES
 P.O. Box 1248, Cleveland Drive, Dalton, GA 30720
 Winfred L. Jones Phone: 404-259-4511

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100 191-5950	Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/S02	ASTM D2646, sec. 7	Testing Backing Fabrics, Breaking Load
03/S03	ASTM D3936	Delamination Strength of Secondary Backing of Pile Floor Coverings

NVLAP LAB CODE 0191

STS CONSULTANTS, LTD.
 111 Pfingsten Road, Northbrook, IL 60062
 Ronald E. Hutchens Phone: 312-272-6520

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31	Making and Curing Concrete Test Specimens in the field
	ASTM C172	Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric)
	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
	ASTM C173	Air Content Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C617	Capping Cylindrical Specimens

SMITH-EMERY COMPANY
781 East Washington Boulevard, Los Angeles, CA 90021
George E. Battey, Jr. Phone: 213-749-3411

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
CONCRETE 02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231	Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) Air Content of Freshly Mixed Concrete by the Pressure Method
02/A01	ASTM C173	Air Content Volumetric Method
02/A02	ASTM C39 ASTM C617	Compressive Strength of Cylindrical Concrete Specimens Capping Cylindrical Specimens
AGGREGATES		
02/A03	ASTM C29	Unit Weight and Voids in Aggregates
02/A04	ASTM C340	Organic Impurities in Fine Aggregate
02/A06	ASTM C88	Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate
02/A07	ASTM C117	Materials Finer than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing
02/A08	ASTM C123	Lightweight Pieces in Aggregate
02/A09	ASTM C127	Specific Gravity and Absorption of Coarse Aggregate
02/A10	ASTM C128	Specific Gravity and Absorption of Fine Aggregate
02/A11	ASTM C131	Resistance to Degradation of Small-Size Coarse Aggregates in the Los Angeles Machine
02/A12	ASTM C136	Sieve Analysis of Fine and Coarse Aggregates
02/A13	ASTM C142	Clay Lumps and Friable Particles in Aggregates

SHAW INDUSTRIES, INC.
Plant #4, S. Hamilton St. Ext., P.O. Drawer 2128, Dalton, GA 30720
Dennis Hart Phone: 404-278-3812

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/F03	16 CFR Part 1630 (FF-1-70) Sec.1630.4	Methenamine Pill Test
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
03/S02	ASTM D2646, Sec. 7	Testing Backing Fabrics, Breaking Load Delamination Strength of Secondary Backing of Pile Floor Coverings
03/S03	ASTM D3936	

NVLAP LAB CODE 0195

GARCO TESTING LABORATORIES
 532 West 3560 South, Salt Lake City, UT 84107
 Douglas L. Watson Phone: 801-266-4498

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231	Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) Air Content of Freshly Mixed Concrete by the Pressure Method
02/A01	ASTM C173	Air Content Volumetric Method
02/A02	ASTM C39 • ASTM C617	Compressive Strength of Cylindrical Concrete Specimens Capping Cylindrical Specimens

NVLAP LAB CODE 0196

TEXAS TESTING LABORATORIES, INC.
 1526 South Good-Latimer Expressway, P.O. Box 2144, Dallas, TX 75221
 George W. Pluto Phone: 214-428-7481

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) Air Content of Freshly Mixed Concrete by the Pressure Method Air Content Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

NVLAP LAB CODE 0197

WORLD CARPETS
 QUALITY CONTROL PHYSICAL TESTING
 One World Plaza, Dalton, GA 30720
 Wayne Murdock Phone: 404-278-8000

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/F03	16 CFR Part 1630 (FF 1-70) Sec. 1630.4	Surface Flammability Test Procedure
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
03/S02	ASTM D2646, sec. 7	Testing Backing Fabrics, Breaking Load
03/S03	ASTM D3936	Delamination Strength of Secondary Backing of Pile Floor Coverings

NVLAP LAB CODE 0201

PTL-INSPECTORATE INC.
 850 Poplar Street, Pittsburgh, PA 15220
 William H. Levelius Phone: 412-922-4000

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Test Specimens Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content Air Content-Pressure Method Content-Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

NVLAP LAB CODE 0203

CALMAT CO.
 CONCRETE AND AGGREGATES LABORATORY
 16009 Foothill Blvd., Irwindale, CA 91706
 James Neal Van Nest Phone: 818-334-0304

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Test Specimens Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content Air Content-Pressure Method Content-Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens
02/A02	ASTM C617	Capping Cylindrical Specimens

NVLAP LAB CODE 0206

R. W. SIDLEY, INC.
 QUALITY CONTROL LABORATORY
 6900 Madison Road, Thompson, OH 44086
 James R. Cannizzaro Phone: 216-298-3232

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) Air Content of Freshly Mixed Concrete by the Pressure Method Air Content Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C617	Capping Cylindrical Specimens

GULF COAST TESTING LABORATORY, INC.
 1205 North Tancahua Street, Corpus Christi, TX 78401
 Doyne Reynolds Phone: 512-882-5411

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
CONCRETE		
02/G01	ASTM C31	Making and Curing Concrete Test Specimens in the field
	ASTM C172	Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric)
	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
	ASTM C173	Air Content Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C617	Capping Cylindrical Specimens
AGGREGATES		
02/A03	ASTM C29	Unit Weight and Voids in Aggregates
02/A04	ASTM C40	Organic Impurities in Fine Aggregate
02/A05	ASTM C87	Effect of Organic Impurities in Fine Aggregates on Strength of Mortar
02/A06	ASTM C88	Soundess of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate
02/A07	ASTM C117	Materials Finer than 75- m (No. 200) Sieve in Mineral Aggregates by Washing
02/A08	ASTM C123	Lightweight Pieces in Aggregate
02/A09	ASTM C127	Specific Gravity and Absorption of Coarse Aggregate
02/A10	ASTM C128	Specific Gravity and Absorption of Fine Aggregate
02/A11	ASTM C131	Resistance to Degradation of Small-Size Coarse Aggregates in the Los Angeles Machine
02/A12	ASTM C136	Sieve Analysis of Fine and Coarse Aggregates
02/A13	ASTM C142	Clay Lumps and Friable Particles in Aggregates
02/A16	ASTM D2419	Sand Equivalent Value of Soils and Fine Aggregate

INSTA-FOAM PRODUCTS, INC.
 1500 Cedarwood Drive, Joliet, IL 60435
 Greg Luegering Phone: 815-741-6819

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/D15	ASTM D756	Weight and shape changes; Accelerated service (proc. A); Plastics
01/D16	ASTM D756	Weight and shape changes; Accelerated service (proc. B); Plastics
01/D17	ASTM D756	Weight and shape changes; Accelerated service (proc. E); Plastics
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D20	ASTM D2126	Response to thermal and humid aging (proc. D); Rigid cellular plastics
01/D22	ASTM D2126	Response to thermal and humid aging (proc. F); Rigid cellular plastics
01/D23	ASTM D2842	Water absorption; Rigid cellular plastics
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/D28	ASTM D2126	Response to thermal and humid aging (proc. G); Rigid cellular plastics
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)

NVLAP LAB CODE 0215

CONSTRUCTION MATERIALS CONSULTANTS, INC.
 1000 West Fillmore Street, Colorado Springs, CO 80907
 Ivan A. Vanaken Phone: 303-632-2588

Accreditation Renewal Date: July 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31	Making and Curing Test Specimens
	ASTM C172	Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content
	ASTM C231	Air Content-Pressure Method
	ASTM C173	Content-Volumetric Method
02/A01	ASTM C39-	Compressive Strength of Cylindrical Specimens

NVLAP LAB CODE 0216

USG CORPORATION
 700 North Highway 45, Libertyville, IL 60048
 William F. Porter Phone: 312-362-9797

Accreditation Renewal Date: July 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0218

APACHE BUILDING PRODUCTS COMPANY
 2025 East Linden Avenue, Linden, NJ 07036
 Dennis W. Rosato Phone: 201-486-6723

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0220

STRATTON LABORATORIES
 Highway 61, South, P.O. Box 1007, Cartersville, GA 30120
 Jack R. Kilgore Phone: 404-382-9350

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
03/F03	16 CFR Part 1630 (FF 1-70) Sec. 1630.4	Surface Flammability Test Procedure
03/F04	ASTM E648	Radiant Panel (Carpet)
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
03/S02	ASTM D2646, sec. 7	Testing Backing Fabrics, Breaking Load
03/S03	ASTM D3936	Delamination Strength of Secondary Backing of Pile Floor Coverings

SALEM CARPET LABORATORY
 P.O. Box 10, Chatsworth, GA 30720
 Michael A. Corbin Phone: 404-935-2241

Accreditation Renewal Date: July 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11)
03/D02	DDD-C-95A	Tuft Height - (Section 13)
03/F03	16 CFR Part 1630 (FF-1-70) Sec.1630.4	Shrinkage
03/F04	ASTM E648	Surface Flammability
03/S01	ASTM D1335	Test Procedure
03/S02	ASTM D2646, sec. 7	Radiant Panel (Carpet)
03/S03	ASTM D3936	Tuft Bind of Floor Coverings
		Testing Backing Fabrics, Breaking Load
		Delamination Strength of Secondary Backing of
		Pile Floor Coverings

PFS CORPORATION
 2402 Daniels Street, Madison, WI 53704
 Ed Starostovic Phone: 608-221-3361

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Short Title</u>	<u>Section of UL 737</u>	<u>Section of UL 1482</u>
		5th Edition (March 1, 1982)	2nd Edition (January 24, 1983)
<u>PHYSICAL/FIRE TEST GROUP (04/F00)</u>			
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
<u>MOBILE HOME TEST GROUP (04/M00)</u>			
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
<u>ELECTRICAL TEST GROUP (04/E00)</u>			
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

ARNOLD GREENE TESTING LABORATORIES
 A DIVISION OF CONAM INSPECTION
 2 Millbury Street, Auburn, MA 01501
 Robert J. Halliday Phone: 617-235-7330

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Short Title</u>	<u>Section of UL 737 5th Edition (March 1, 1982)</u>	<u>Section of UL 1482 2nd Edition (January 24, 1983)</u>
<u>PHYSICAL/FIRE TEST GROUP (04/F00)</u>			
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
<u>MOBILE HOME TEST GROUP (04/M00)</u>			
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
<u>ELECTRICAL TEST GROUP (04/E00)</u>			
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

WISS, JANNEY, ELSTNER ASSOCIATES, INC.
 330 Pfingsten Road, Northbrook, IL 60062
 Jerry G. Stockbridge Phone: 312-272-7400

Accreditation Renewal Date: July 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/T04	ASTM C236	Thermal conductance; Guarded hot box

NVLAP LAB CODE 0227

RIVERBANK ACOUSTICAL LABORATORIES
P.O.Box 189, 1512 Batavia Avenue, Geneva, IL 60134
John W. Kopec Phone: 312-232-0104

Accreditation Renewal Date: April 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
08/P03	ASTM C423	Sound Absorption and Sound Absorption Coefficients
08/P05	ASTM C523	Light Reflectance of Acoustical Materials
08/P06	ASTM E90	Airborne Sound Transmission Loss of Building Partitions
08/P07	ASTM E492	Impact Sound Transmission Through Floor-Ceiling Assemblies
08/P10	ANSI S1.31	Sound Power Levels, Broad-Band Noise Sources in Reverberation Rooms (100-10,000 Hz)
08/P17	ISO 3741	Sound Power Levels, Broad-Band Sources in Reverberation Rooms (100-10,000 Hz)
08/E01	ANSI B71.1 (para. 9 and 21)	Sound Level Tests; Power Lawn Mowers, Lawn and Garden Tractors and Lawn Tractors

NVLAP LAB CODE 0228

ARMSTRONG WORLD INDUSTRIES
TECHNICAL CENTER, ACOUSTICS LABORATORY
2500 Columbia Avenue, P.O.Box 3511, Lancaster, PA 17604
William R. Reed Phone: 717-396-5523

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
08/P03	ASTM C423	Sound Absorption and Sound Absorption Coefficients
08/P07	ANSI/ASTM E492	Impact Sound Transmission Through Floor-Ceiling Assemblies

NVLAP LAB CODE 0229

GOLD BOND BUILDING PRODUCTS
A NATIONAL GYPSUM DIVISION, RESEARCH CENTER
1650 Military Road, Buffalo, NY 14217
Terry Williamson Phone: 716-873-9750

Accreditation Renewal Date: April 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
08/P03	ASTM C423	Sound Absorption and Sound Absorption Coefficients
08/P06	ASTM E90	Airborne Sound Transmission Loss of Building Partitions
08/E21	AMA-1-II	Ceiling Sound Transmission Test by Two-Room Method

NVLAP LAB CODE 0230

VIRGINIA CONCRETE LABORATORY
6555 Industrial Drive, P.O. Box 666, Springfield, VA 22150
Donald Blevins Phone: 703-354-7100

Accreditation Renewal Date: April 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31	Making and Curing Test Specimens
	ASTM C172	Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content
	ASTM C231	Air Content-Pressure Method
	ASTM C173	Content-Volumetric Method
02/A01	ASTM C39.	Compressive Strength of Cylindrical Specimens

NVLAP LAB CODE 0232

RITCHIE LABORATORIES
1820 North Mosley, P.O. Box 4048, Wichita, KS 67204
Donald J. Brackel Phone: 316-263-9937

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31	Making and Curing Concrete Test Specimens in the field
	ASTM C172	Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric)
	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
	ASTM C173	Air Content Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

NVLAP LAB CODE 0233

STS CONSULTANTS, LTD.
FAIRFAX VA OFFICE
2929-C Eskridge Road, Fairfax, VA 22031
John M. Grusha Phone: 703-698-5300

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31	Making and Curing Test Specimens
	ASTM C172	Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content
	ASTM C231	Air Content-Pressure Method
	ASTM C173	Content-Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

PITTSBURGH TESTING LABORATORY
 SYRACUSE NY PLANT LABORATORY
 6159 East Mallory Road, Syracuse, NY 13057
 W.J. Peters Phone: 315-437-7043

Accreditation Renewal Date: April 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31	Making and Curing Test Specimens
	ASTM C172	Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content
	ASTM C231	Air Content-Pressure Method
	ASTM C173	Content-Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

HUFCOR ACOUSTICAL LABORATORY
 HOUGH MANUFACTURING CORP.
 P.O. Box 591, 1205 Norwood Road, Janesville, WI 53547
 Stanley Kowalczyk Phone: 608-756-1241

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
08/P03	ASTM C423	Sound Absorption and Sound Absorption Coefficients
08/P06	ASTM E90	Airborne Sound Transmission Loss of Building Partitions

OMNI ENVIRONMENTAL SERVICES, INC.
 SOLID FUELS TESTING LAB
 10950 SW 5th Street, Suite 160, Beaverton, OR 97005
 Raymond W. Downey Phone: 503-643-3755

Accreditation Renewal Date: January 1, 1988

PHYSICAL/FIRE TEST GROUP (04/F00)

<u>NVLAP Code</u>	<u>Short Title</u>	<u>Section of UL 737</u>	<u>Section of UL 1482</u>
		<u>5th Edition</u>	<u>2nd Edition</u>
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15

Section of CSA Standard B 366.2-M1984
(ULC s627-M1984)
(April, 1984)

04/F11	Test Installation	7.2
04/F12	Temperature Measurement	7.3
04/F14	Radiant Fire Test	7.5
04/F16	Brand Fire Test	7.6
04/F17	Flash Fire Test	7.7

04/F18	Strength Tests	7.12
04/F19	Stability Test	7.10
04/F20	Glazing Test	7.11

MOBILE HOME TEST GROUP (04/M00)

NVLAP Code	Short Title	Section of UL 737	Section of UL 1482
		5th Edition (November 9, 1982)	2nd Edition (January 24, 1983)
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
		Section of CSA Standard B 366.2-M1984 (ULC s627-M1984) (April, 1984)	
04/M04	Test Installation	12	
04/M05	Toxic Gas	12	
04/M06	Drop Test	12	

ELECTRICAL TEST GROUP (04/E00)

NVLAP Code	Short Title	Section of UL 737	Section of UL 1482
		5th Edition (November 9, 1982)	2nd Edition (January 24, 1983)
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40
		Section of CSA C 22.2 No. 3 1979	Section of CSA C 22.2 No. 113 1982
04/E09	Temperature Measurements, Electrical Components	6.4	6.2
04/E10	Temperature Test, Electrical Components	6.4	6.2
04/E11	Leakage Current	6.8	6.3
04/E12	Dielectric Withstand	6.5	6.3
04/E13	Power Cord Strain Relief	6.9	6.4

NVLAP LAB CODE 0241

UNITED STATES TESTING COMPANY, INC.
UNITECH SERVICES GROUP-WESTERN DIVISION
3536 Oakdale Road, Modesto, CA 95355
Thomas Gaeto Phone: 209-527-2271

Accreditation Renewal Date: January 1, 1988

NVLAP Code	Designation	Short Title
02/G01	ASTM C31	Making and Curing Concrete Test Specimens in the field
	ASTM C172	Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric)
	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
	ASTM C173	Air Content Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
	ASTM C617	Capping Cylindrical Specimens

NVLAP LAB CODE 0243

CUSTOM COATING, INC.
 204 West Industrial Blvd., Dalton, GA 30720
 David C. Robinson Phone: 404-277-3778

Accreditation Renewal Date: April 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
03/F03	16 CFR Part 1630 (FF 1-70) Sec. 1630.4	Surface Flammability Test Procedure

NVLAP LAB CODE 0244

NORTHWEST TESTING LABORATORIES, INC.
 5405 N. Lagoon Avenue, P.O. Box 17126, Portland, OR 97217-0126
 Harry L. Lippy Phone: 503-289-1778

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Short Title</u>	<u>Section of UL 737</u>	<u>Section of UL 1482</u>
		5th Edition (March 1, 1982)	2nd Edition (January 24, 1983)
<u>PHYSICAL/FIRE TEST GROUP (04/F00)</u>			
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
<u>MOBILE HOME TEST GROUP (04/M00)</u>			
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
<u>ELECTRICAL TEST GROUP (04/E00)</u>			
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

R. F. GEISSE & ASSOCIATES, INC.
 120 Pershing Street, P.O. Box 4526, East Providence, RI 02914
 Bryon R. Holmes Phone: 401-438-7320

Accreditation Renewal Date: January 1, 1988

PHYSICAL/FIRE TEST GROUP

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15

Section of CSA Standard B 366.2-M1984
 (ULC s627-M1984)
(April, 1984)

04/F11	Test Installation	7.2
04/F12	Temperature Measurement	7.3
04/F14	Radiant Fire Test	7.5
04/F16	Brand Fire Test	7.6
04/F17	Flash Fire Test	7.7
04/F18	Strength Tests	7.12
04/F19	Stability Test	7.10
04/F20	Glazing Test	7.11

MOBILE HOME TEST GROUP

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17

Section of CSA Standard B 366.2-M1984
 (ULC s627-M1984)
(April, 1984)

04/M04	Test Installation	12
04/M05	Toxic Gas	12
04/M06	Drop Test	12

ELECTRICAL TEST GROUP

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

		<u>Section of CSA C 22.2 No. 3 1979</u>	<u>Section of CSA C 22. 2 No. 113 1982</u>
04/E09	Temperature Measurements, Electrical Components	6.2	6.4
04/E10	Temperature Test, Electrical Components	6.2	6.4
04/E11	Leakage Current		6.8
04/E12	Dielectric Withstand	6.3	6.5
04/E13	Power Cord Strain Relief	6.4	6.9

NVLAP LAB CODE 0247

HOLLYTEX CARPET MILL, INC.
505 N.E. Seventh Street, P.O. Box 369, Anadarko, OK 73005
Darlene McIntire Phone: 405-247-6641

Accreditation Renewal Date: April 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
03/C02	AATCC 8	Colorfastness to Crocking
03/F03	16 CFR Part 1630 (FF 1-70) Sec. 1630.4	Surface Flammability Test Procedure
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
03/S02	ASTM D2646, sec. 7	Testing Backing Fabrics, Breaking Load
03/S03	ASTM D3936	Delamination Strength of Secondary Backing of Pile Floor Coverings

NVLAP LAB CODE 0248

KNAUF FIBER GLASS RESEARCH LABORATORIES
240 Elizabeth Street, Shelbyville, IN 46176
Kerry VanArsdel Phone: 317-398-4434

Accreditation Renewal Date: April 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D11	ASTM C356	Linear shrinkage; Soaking heat; Preformed high temperature insulation
01/D12	ASTM C411	Hot-surface performance; High temperature insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)

WARNOCK HERSEY INTERNATIONAL, INC.
 8612 Fairway Place, Middleton, WI 53562
 F. D. Curkeet Phone: 608-836-4400

Accreditation Renewal Date: January 1, 1988

PHYSICAL/FIRE TEST GROUP

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15
Section of CSA Standard B 366.2-M1984 (ULC s627-M1984) (April, 1984)			
04/F11	Test Installation	7.2	
04/F12	Temperature Measurement	7.3	
04/F14	Radiant Fire Test	7.5	
04/F16	Brand Fire Test	7.6	
04/F17	Flash Fire Test	7.7	
04/F18	Strength Tests	7.12	
04/F19	Stability Test	7.10	
04/F20	Glazing Test	7.11	

MOBILE HOME TEST GROUP

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
Section of CSA Standard B 366.2-M1984 (ULC s627-M1984) (April, 1984)			
04/M04	Test Installation	12	
04/M05	Toxic Gas	12	
04/M06	Drop Test	12	

ELECTRICAL TEST GROUP

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

		<u>Section of CSA C 22.2 No. 3 1979</u>	<u>Section of CSA C 22.2 No. 113 1982</u>
04/E09	Temperature Measurements, Electrical Components	6.2	6.4
04/E10	Temperature Test, Electrical Components	6.2	6.4
04/E11	Leakage Current		6.8
04/E12	Dielectric Withstand	6.3	6.5
04/E13	Power Cord Strain Relief	6.4	6.9

NVLAP LAB CODE 0250

W. R. GRACE & COMPANY
THERMAL MEASUREMENTS LABORATORY
62 Whittemore Avenue, Cambridge, MA 02140
Gregory Derderian Phone: 617-876-1400

Accreditation Renewal Date: April 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/D09	ASTM C303	Density; Preformed block insulation
01/D14	ASTM C520	Density; Granular loose-fill
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0251

STATE OF CALIFORNIA BUREAU OF HOME FURNISHINGS
INSULATION PROGRAM
3485 Orange Grove Avenue, North Highlands, CA 95660
Sarfraz A. Siddiqui Phone: 916-920-7005

Accreditation Renewal Date: July 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/C02	16 CFR-Part 1209.5 (formerly HH-I-515 part 4.8.5)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D26	16 CFR-Part 1209.4 (formerly HH-I-515, part 4.8.1)	Settled density; Cellulosic fiber (loose-fill)
01/F07	16 CFR-Part 1209.6 (formerly HH-I-515, part 4.8.7)	Critical radiant flux; Radiant panel (cellulosic fill)
01/F08	16 CFR-Part 1209.7 (formerly HH-I-515, part 4.8.8)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0252

D/L LABORATORIES
116 East 16th Street, New York, NY 10003
Saul Spindel Phone: 212-777-4410

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
09/A01	ASTM D56	Flash Point by Tag Closed Tester
09/A02	ASTM D93	Flash Point by Pensky-Martens Closed Tester, Method A & B
09/A03	ASTM D153	Specific Gravity of Pigments
09/A04	ASTM D185	Coarse Particles in Pigments, Pastes and Paints
09/A05	ASTM D281	Oil Absorption of Pigments by Spatula Rub-Out
09/A07	ASTM D523	Specular Gloss

09/A08	ASTM D562	Consistency of Paints; Stormer Viscometer Procedure A & B
09/A09	ASTM D1005	Dry Film Thickness of Organic Coatings
09/A10	ASTM D1186	Dry Film Thickness of Non-magnetic Coatings Applied to a Ferrous Base, Method A & B
09/A11	ASTM D1200	Viscosity of Paints, Varnishes, and Lacquers by Ford Viscosity Cup
09/A12	ASTM D1210	Fineness of Dispersion of Pigment-Vehicle Systems
09/A13	ASTM D1212	Wet Film Thickness of Organic Coatings, Method A
09/A14	ASTM D1296	Odor of Volatile Solvents and Diluents
09/A15	ASTM D1310	Flash-Point of Liquids by Tag Open-Cup Apparatus
09/A16	ASTM D1400	Dry Film Thickness of Non-conductive Coatings Applied to a Nonferrous Metal Base
09/A17	ASTM D1475	Density of Paint, Varnish, Lacquer, and Related Products
09/A18	ASTM D1544	Color of Transparent Liquids (Gardner Color Scale)
09/A19	ASTM D1729	Visual Evaluation of Color Differences of Opaque Materials
09/A20	ASTM D2244	Instrumental Evaluation of Color Difference of Opaque Materials
09/A21	ASTM D3278	Flash Point of Liquids: Setaflash Closed Tester Method A & B
09/A22	ASTM D3363	Film Hardness by Pencil Test
09/A23	ASTM D3793	Low-Temperature Coalescence of Latex Paint Films
09/A24	ASTM D4061	Specific Luminance of Horizontal Coatings
09/A25	ASTM D4212	Viscosity by Dip-Type Viscosity Cups
09/A26	ASTM E97	45-deg, 0-deg Directional Reflectance Factor of Opaque Specimens by Broad-Band Filter Reflectometry
09/A28	ASTM E313	Indexes of Whiteness and yellowness of Near-White Opaque Materials
09/B01	ASTM D279	Bleeding of Pigments, Method A
09/B02	ASTM D332	Tinting Strength of White Pigments, Method A
09/B03	ASTM D344	Relative Dry Hiding Power of Paints
09/B04	ASTM D610	Rusting on Painted Steel Surfaces
09/B05	ASTM D659	Chalking of Exterior Paints
09/B06	ASTM D660	Checking of Exterior Paints
09/B07	ASTM D661	Cracking of Exterior Paints
09/B08	ASTM D662	Erosion of Exterior Paints
09/B09	ASTM D711	No-Pick-Up Time of Traffic Paint
09/B10	ASTM D714	Blistering of Paints
09/B11	ASTM D772	Flaking (Scaling) of Exterior Paints
09/B12	ASTM D821	Abrasion, Erosion or a Combination of Both in Road Service Tests of Traffic Paints
09/B13	ASTM D868	Bleeding of Traffic Paint
09/B14	ASTM D869	Settling of Traffic Paint
09/B15	ASTM D870	Water Immersion Test of Organic Coatings on Steel
09/B16	ASTM D913	Chipping of Traffic Paint
09/B17	ASTM D968	Abrasion Resistance of Organic Coatings by the Falling Abrasive Tester, Method A & B
09/B18	ASTM D969	Bleeding of Traffic Paint
09/B19	ASTM D1308	Effect of Household Chemicals on Clear and
09/B20	ASTM D1309	Settling Properties of Traffic Paint During
09/B23	ASTM D1640	Drying, Curing, or Film Formation of Organic
09/B24	ASTM D1737	Elongation of Attached Organic Coatings with Cylindrical Mandrel Apparatus
09/B25	ASTM D2197	Adhesion of Organic Coatings, Method A
09/B26	ASTM D2243	Freeze-Thaw Resistance of Latex and Emulsion Paints
09/B27	ASTM D2248	Detergent Resistance of Organic Finishes
09/B29	ASTM D2486	Scrub Resistance of Interior Latex Flat Wall Paints
09/B30	ASTM D2801	Leveling Characteristics of Paints by Draw-Down Method
09/B31	ASTM D2805	Hiding Power of Paints
09/B32	ASTM D3273	Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
09/B33	ASTM D3274	Surface Disfigurement of Paint Films by Fungal Growth or Soil and Dirt Accumulation
09/B34	ASTM D3450	Washability Properties of Interior Architectural Coatings
09/B35	ASTM D3456	Susceptability of Paint Films to Microbiological Attack
09/B37	ASTM D4060	Abrasion Resistance of Organic Coatings by the Taber Abraser
09/B38	ASTM D4062	Leveling of Paints by Draw-Down Method
09/B39	ASTM D4213	Wet Abrasion Resistance of Interior Paint by Weight Loss
09/B40	ASTM D4214	Chalking of Exterior Paint Films, Method A, B, C, D & E
09/B41	Fed. Std. 141	Sag Test (Multinotch Blade)
	Method 4494	
09/B42	Fed. Std. 141	Drying Time
	Method 4061	

09/C02	ASTM D95	Water in Petroleum Products and Bituminous Materials by Distillation
09/C06	ASTM D1078	Distillation Range of Volatile Organic Liquids
09/C07	ASTM D1133	Kauri-Butanol Value of Hydro-carbon Solvents
09/C08	ASTM D1208	Common Properties of Certain Pigments
09/C09	ASTM D1259	Nonvolatile Content of Resin Solutions, Method A & B
09/C11	ASTM D1353	Nonvolatile Matter in Volatile Solvents for Use in Paint, Varnish, Lacquer and Related Products
09/C12	ASTM D1364	Water in Volatile Solvents (Fischer Reagent Titration Method)
09/C22	ASTM D1644	Nonvolatile Content of Varnishes, Methods A & B
09/C26	ASTM D2369	Volatile Content of Paints, Procedure A & B
09/C27	ASTM D2371	Pigment Content of Solvent-Type Paints
09/C28	ASTM D2697	Volume Nonvolatile Matter in Clear or Pigmented Coatings
09/C29	ASTM D2698	Pigment Content Of Solvent-Type Paints by High-Speed Centrifuging
09/C30	ASTM D2832	Nonvolatile Content of Paint and Paint Materials
09/C37	ASTM D3723	Pigment Content of Water-Emulsion Paints by Low-Temperature Ashing
09/C39	ASTM D3960	Volatile Organic Contents (VOC) Paints and Related Coatings
09/C40	ASTM D4017	Water in Paints and Paint Materials by Karl Fischer Method
09/D01	ASTM B117	Salt Spray (Fog) Testing
09/D02	ASTM D609	Preparation of Steel Panels for Testing Paints
09/D03	ASTM D822	Varnish, Lacquer, and Related Products, Method A, B, C, & D Operating Light-and-Water-Exposure Apparatus (Carbon-Arc Type) for Testing Paint, Varnish, Lacquer, and Related Products
09/D04	ASTM D823	Producing Films of Uniform Thickness of Paint Varnish, Lacquer, and Related Products on Test Panels, Method B & D
09/D05	ASTM D1006	Exterior Exposure Tests of Paints on Wood
09/D06	ASTM D1014	Exterior Exposure Tests of Paints on Steel, Method B,C,D & E
09/D07	ASTM D1654	Painted or Coated Specimens Subjected to Corrosive Environments, Procedures A & B
09/D10	ASTM D2247	Coated Metal Specimens at 100% Relative Humidity
09/D11	ASTM D2372	Separation of Vehicle Solvent-Type Paints
09/D13	ASTM D3924	Standard Environment for Conditioning and Testing Paint, Varnish, Lacquer, and Related Materials
09/D14	ASTM G23	Operating Light-Exposure Apparatus (Carbon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials, Method 1, 2, 3, & 4
09/D16	ASTM G53	Operating Light and Water-Exposure Apparatus (Fluorescent UV Condensation Type) for Exposure of Nonmetallic Materials
13/001	ASTM C-510	Staining and Color Change
13/002	ASTM C-603	Extrusion Rate and Application Life
13/003	ASTM C-639	Rheological (Flow) Properties
13/004	ASTM C-661	Indentation Hardness by Durometer
13/005	ASTM C-679	Tack-Free Time
13/006	ASTM C-681	Volatility
13/007	ASTM C-711	Low-Temperature Flexibility and Tenacity
13/008	ASTM C-712	Bubbling
13/009	ASTM C-713	Slump
13/010	ASTM C-718	UV-Cold Box Exposure
13/011	ASTM C-719	Adhesion and Cohesion Under Cyclic Movement
13/012	ASTM C-731	Extrudibility, After Package Aging
13/013	ASTM C-732	Aging Effects of Artificial Weathering
13/014	ASTM C-733	Volume Shrinkage
13/015	ASTM C-734	Low-Temperature Flexibility After Artificial Weathering
13/016	ASTM C-736	Extension-Recovery and Adhesion After Artificial Weathering
13/017	ASTM C-741	Accelerated Aging
13/018	ASTM C-742	Degree of Set
13/019	ASTM C-792	Effects of Heat Aging on Weight Loss, Cracking, and Chalking
13/020	ASTM C-793	Effects of Accelerated Weathering
13/021	ASTM C-794	Adhesion-in-Peel
13/022	ASTM C-910	Bond and Cohesion
13/023	ASTM D-2202	Slump
13/024	ASTM D-2203	Staining
13/025	ASTM D-2376	Slump
13/026	ASTM D-2377	Tack-Free Time
13/027	ASTM D-2450	Bond
13/028	ASTM D-2451	Degree of Set
13/029	ASTM D-2452	Extrudibility
13/030	ASTM D-2453	Shrinkage and Tenacity

NVLAP LAB CODE 0253

GIFFORD-HILL & CO. INC.
 TECHNICAL SERVICES DIVISION LABORATORY
 1621 Falcon Drive, DeSoto, TX 75115
 K.S. Pryor, II Phone 214-224-9296

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Test Method Code</u>	<u>Test Method Designation</u>
02/G01	ASTM C31 Making and Curing Concrete Test Specimens in the field
	ASTM C172 Sampling Freshly Mixed Concrete
	ASTM C143 Slump of Portland Cement Concrete
	ASTM C138 Unit Weight, Yield, and Air Content (Gravimetric)
	ASTM C231 Air Content of Freshly Mixed Concrete by the Pressure Method
	ASTM C173 Air Content Volumetric Method
02/A01	ASTM C39 Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C617 Capping Cylindrical Specimens

NVLAP LAB CODE 0255

UNDERWRITERS LABORATORIES INC.
 333 Pfingsten Road, Northbrook, IL 60062
 Steve Mazzoni Phone: 516-271-6200

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Test Method Code</u>	<u>Test Method Designation</u>
12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz FCC Method - 47 CFR Part 15 Subpart J
12/R01	Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J

NVLAP LAB CODE 0256

WESTERN ELECTRO-ACOUSTIC LABORATORY, INC.
 1711 16th Street, Santa Monica, CA 90404
 Jose C. Ortega Phone: 213-870-9268

Accreditation Renewal Date: April 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
08/P03	ASTM C423	Sound Absorption and Sound Absorption Coefficients
08/P06	ASTM E90	Airborne Sound Transmission Loss of Building Partitions

NVLAP LAB CODE 0257

GAI CONSULTANTS, INC.
 570 Beatty Road, Monroeville, PA 15146
 Charles T. Ford Phone: 412-856-6400

Accreditation Renewal Date: July 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31 Making and Curing Test Specimens	
	ASTM C172 Sampling Freshly Mixed Concrete	
	ASTM C143 Slump of Portland Cement Concrete	
	ASTM C138 Unit Weight, Yield, and Air Content	
	ASTM C231 Air Content-Pressure Method	
	ASTM C173 Content-Volumetric Method	
02/A01	ASTM C39 Compressive Strength of Cylindrical Specimens	

THE CELOTEX CORPORATION, TRACY PLANT
 400 West Gandy Dancer Drive, P.O. Box 1500, Tracy, CA 95376
 Robert E. Herrell Phone: 209-836-4440

Accreditation Renewal Date: July 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

MACMILLAN BLOEDEL INC.
 TECHNICAL DEPARTMENT TESTING LABORATORIES
 P.O. Box 336, Pine Hill, AL 36769
 G. S. Overstreet Phone: 205-963-4391

Accreditation Renewal Date: July 1, 1987

<u>NVLAP Code</u>	<u>Test Method Designation</u>	<u>Short Title</u>
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Paper and Paperboard

09/E02	TAPPI T402-OM	Standard Conditioning and ASTM D685 Testing Atmospheres for Paper, Board, Pulp Handsheets and Related Products
09/E03	TAPPI T403-OS ASTM D774	Bursting Strength of Paper
09/E05	TAPPI T410-OM	Grammage of Paper and Paper-board (Weight per Unit Area)
09/E06	TAPPI T411-OM	Thickness (Caliper) of Paper and Paperboard
09/E07	TAPPI T412-OM ASTM D644	Moisture in Paper and Paperboard
09/E08	TAPPI T414-OM ASTM D689	Internal Tearing Resistance of Paper
09/E10	TAPPI T435-OM	Hydrogen Ion Concentration (pH) of Paper Extracts- (Hot Extraction Method)
09/E12	TAPPI T459-OM ASTM D2482	Surface Strength of Paper (Wax Pick Test)
09/E13	TAPPI T460-OM ASTM D726	Air Resistance of Paper
09/E17	TAPPI T494-OM	Tensile Breaking Properties of Paper and Paperboard (Using Constant Rate of Elongation Apparatus)
09/E19	TAPPI T538-PM	Sheffield Smoothness of Paper and Paperboard (air Flow Method)
09/E20	TAPPI T809-OM	Flat Crush of Corrugating Medium (CMT Test)
09/E21	TAPPI T818-OM ASTM D1164	Ring Crush of Paperboard

Packaging

09/H01	ASTM D642	Compression Test for Shipping Containers
09/H23	TAPPI T6880M	Total Wax Content of Corrugated Paperboard
09/H24	TAPPI T8020S	Drop Test for Fiberboard Shipping Containers
09/H25	TAPPI T8030M	Puncture and Stiffness Test of Container Board
09/H26	TAPPI Useful Method 807	Wet Shear Adhesion Test of Corrugated Fiberboard (MBR)
09/H27	TAPPI T8080S	Flat Crush Test of Corrugated Board
09/H28	TAPPI T8100M	Bursting Strength of Corrugated and Solid Fiberboard
09/H29	TAPPI T8110S	Edgewise Compressive Strength of Corrugated Fiberboard (Short Column Test)
09/H30	TAPPI T821PM	Pin Adhesion of Corrugated Board by Selective Separation

NVLAP LAB CODE 0260

BASF STYROPOR TECHNICAL CENTER
 Cranbury and South River Road, Jamesburg, NJ 08831
 Mark C. Braemer Phone: 201-521-1600

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0261

RADCO (RESOURCES APPLICATIONS,
 DESIGNS & CONTROLS, INC.)
 16415 South Avalon Blvd., Gardena, CA 90248
 J. D. Waldman Phone: 213-532-3842

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
01/D07	ASTM C272	Water absorption; Core materials
01/D09	ASTM C303	Density; Preformed block insulation
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/D29	California Energy Commission tests for insulating materials: Installed compressed thickness	
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S09	ASTM D781	Puncture test; Paperboard and fiberboard
01/S10	ASTM D828	Tensile breaking strength; Paper and paperboard
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)

NVLAP LAB CODE 0263

WHITTAKER ANALYTICAL SERVICES
 1231 South Lincoln Street, P.O. Box 825, Colton, CA 92324
 Edward J. Holzrichter Phone: 714-825-6292

Accreditation Renewal Date: January 1, 1988

<u>NVLAP</u> <u>Code</u>	<u>Test Method</u> <u>Designation</u>	<u>Short Title</u>
<u>Paints and Related Coatings</u>		
09/A04	ASTM D185	Coarse Particles in Pigments, Pastes and Paints
09/A05	ASTM D281	Oil Absorption of Pigments by Spatula Rub-Out
09/A07	ASTM D523	Specular Gloss
09/A09	ASTM D1005	Dry Film Thickness of Organic Coatings
09/A11	ASTM D1200	Viscosity of Paints, Varnishes, and Lacquers by Ford Viscosity Cup
09/A12	ASTM D1210	Fineness of Dispersion of Pigment-Vehicle Systems
09/A16	ASTM D1400	Dry Film Thickness of Non-conductive Coatings Applied to a Nonferrous Metal Base
09/A17	ASTM D1475	Density of Paint, Varnish, Lacquer, and Related Products
09/A18	ASTM D1544	Color of Transparent Liquids (Gardner Color Scale)
09/A19	ASTM D1729	Visual Evaluation of Color Differences of Opaque Materials

09/A20	ASTM D2244	Instrumental Evaluation of Color Difference of Opaque Materials
09/A21	ASTM D3278	Flash Point of Liquids by Setaflash Closed Tester, Methods A & B
09/A22	ASTM D3363	Film Hardness by Pencil Test
09/A25	ASTM D4212	Viscosity by Dip-Type Viscosity Cups
09/A26	ASTM E97	45- deg, 0-deg Directional Reflectance Factor of Opaque Specimens by Broad-Band Filter Reflectometry
09/A28	ASTM E313	Indexes of Whiteness and yellowness of Near-White Opaque Materials

Measurements of Performance and Performance Change

09/B05	ASTM D659	Chalking of Exterior Paints
09/B06	ASTM D660	Checking of Exterior Paints
09/B07	ASTM D661	Cracking of Exterior Paints
09/B08	ASTM D662	Erosion of Exterior Paints
09/B10	ASTM D714-	Blistering of Paints
09/B11	ASTM D772	Flaking (Scaling) of Exterior Paints
09/B12	ASTM D821	Abrasion, Erosion or a Combination of Both in Road Service Tests of Traffic Paints
09/B14	ASTM D869	Settling of Traffic Paint
09/B15	ASTM D870	Water Immersion Test of Organic Coatings on Steel
09/B16	ASTM D913	Chipping of Traffic Paint
09/B17	ASTM D968	Abrasion Resistance of Organic Coatings by the Falling Abrasive Tester, Methods A & B
09/B18	ASTM D969	Bleeding of Traffic Paint
09/B20	ASTM D1309	Settling Properties of Traffic Paint During Drying, Curing, or Film Formation of Organic
09/B23	ASTM D1640	Elongation of Attached Organic Coatings with Cylindrical Mandrel Apparatus
09/B24	ASTM D1737	Adhesion of Organic Coatings, Method B
09/B25	ASTM D2197	Detergent Resistance of Organic Finishes
09/B27	ASTM D2248	Hiding Power of Paints
09/B31	ASTM D2805	Surface Disfigurement of Paint Films by Fungal Growth or Soil and Dirt Accumulation
09/B33	ASTM D3274	Abrasion Resistance of Organic Coatings by Taber Abraser
09/B37	ASTM D4060	Chalking of Exterior Paint Films, Methods A, B, C, & D
09/B40	ASTM D4214	Sag Test (Multinotch Blade)
09/B41	Fed. Std. 141 Method 4494	Drying Time
09/B42	Fed. Std. 141 Method 4061	

Measurement of Chemical Properties and Compositions

09/C02	ASTM D95	Water in Petroleum Products and Bituminous Materials by Distillation
09/C04	ASTM D563	Phthalic Anhydride Content of Alkyd Resins and Resin Solutions
09/C06	ASTM D1078	Distillation Range of Volatile Organic Liquids
09/C07	ASTM D1133	Kauri-Butanol Value of Hydro-carbon Solvents
09/C09	ASTM D1259	Nonvolatile Content of Resin Solutions, Methods A & B
09/C10	ASTM D1306	Phthalic Anhydride Content of Alkyd Resins and Esters Containing Other Dibasic Acids (Gravimetric)
09/C11	ASTM D1353	Nonvolatile Matter in Volatile Solvents for Use in Paint, Varnish, Lacquer and Related Products
09/C14	ASTM D1397	Unsaponifiable Matter in Alkyd Resins and Resins Solutions
09/C15	ASTM D1398	Fatty Acid Content of Alkyd Resins and Alkyd Resin Solutions, Methods A & B
09/C17	ASTM D1467	Fatty Acids Used in Protective Coatings
09/C20	ASTM D1613	Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer and Related Products
09/C21	ASTM D1639	Acid Value of Organic Coating Materials
09/C22	ASTM D1644	Nonvolatile Content of Varnishes, Methods A & B
09/C23	ASTM D1652	Epoxy Content of Epoxy Resins
09/C26	ASTM D2369	Volatile Content of Paints, Procedures A & B
09/C27	ASTM D2371	Pigment Content of Solvent-Type Paints
09/C29	ASTM D2698	Pigment Content Of Solvent-Type Paints by High-Speed Centrifuging
09/C30	ASTM D2832	Nonvolatile Content of Paint and Paint Materials
09/C31	ASTM D3009	Composition of Turpentine by Gas Chromatography
09/C32	ASTM D3271	Direct Injection of Solvent-Base Paints into a Gas Chromatograph for Solvent Analysis

09/C34	ASTM D3335	Low Concentrations of Lead, Cadmium, and Cobalt in Paint by Atomic Absorption Spectroscopy
09/C35	ASTM D3624	Low Concentrations of Mercury in Paint by Atomic Absorption Spectroscopy
09/C36	ASTM D3718	Low Concentrations of Chromium in Paint by Atomic Absorption Spectroscopy
09/C39	ASTM D3960	Volatile Organic Contents (VOC) of Paints and Related Coatings

Test Sample Conditioning and Preparation

09/D01	ASTM B117	Salt Spray (Fog) Testing
09/D07	ASTM D1654	Painted or Coated Specimens Subjected to Corrosive Environments, Procedures A & B
09/D10	ASTM D2247	Coated Metal Specimens at 100% Relative Humidity
09/D11	ASTM D2372	Separation of Vehicle Solvent-Type Paints
09/D16	ASTM G53	Operating Light- and Water-Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials

NVLAP LAB CODE 0264

SHELTON RESEARCH, INC.
1517 Pacheco Street, P.O. Box 5235, Santa Fe, NM 87502
Richard S. Blackburn Phone: 505-983-9457

Accreditation Renewal Date: January 1, 1988

PHYSICAL/FIRE TEST GROUP

NVLAP Code	Short Title	Section of UL 737	Section of UL 1482
		5th Edition (November 9, 1982)	2nd Edition (January 24, 1983)
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15

ELECTRICAL TEST GROUP

NVLAP Code	Short Title	Section of UL 737	Section of UL 1482
		5th Edition (November 9, 1982)	2nd Edition (January 24, 1983)
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

WEYERHAEUSER TECHNOLOGY CENTER
 Mail Stop WTC 1B14, Tacoma, WA 98477
 Tom Friberg Phone: 206-924-6204

Accreditation Renewal Date: April 1, 1987

<u>NVLAP Code</u>	<u>Test Method Designation</u>	<u>Short Title</u>
		<u>Paper and Related Products</u>
<u>Paper and Paperboard</u>		
09/E02	TAPPI T402-OM	Standard Conditioning and ASTM D685 Testing Atmospheres for Paper, Board, Pulp Handsheets and Related Products
09/E03	TAPPI T403-OS ASTM D774	Bursting Strength of Paper
09/E05	TAPPI T410-OM	Grammage of Paper and Paper-board (Weight per Unit Area)
09/E06	TAPPI T411-OM	Thickness (Caliper) of Paper and Paperboard
09/E07	TAPPI T412-OM ASTM D644	Moisture in Paper and Paperboard
09/E08	TAPPI T414-OM ASTM D689	Internal Tearing Resistance of Paper
09/E09	TAPPI T425-OM	Opacity of Paper (15/Diffuse Illuminant A, 89% Reflectance Backing and Paper Backing)
09/E11	TAPPI T452-OM	Brightness of Pulp, Paper and Paperboard (Directional Reflectance at 457 nm)
09/E12	TAPPI T459-OM ASTM D2482	Surface Strength of Paper (Wax Pick Test)
09/E13	TAPPI T460-OM ASTM D726	Air Resistance of Paper
09/E15	TAPPI T480-OS	Specular Gloss of Paper and Paper-board at 75 Degrees
09/E16	TAPPI T489-OS	Stiffness of Paperboard
09/E17	TAPPI T494-OM	Tensile Breaking Properties of Paper and Paperboard (Using Constant Rate of Elongation Apparatus)
09/E18	TAPPI T511-OM ASTM D2176	Folding Endurance of Paper (MIT) Tester
09/E19	TAPPI T538-PM	Sheffield Smoothness of Paper and Paperboard (air Flow Method)
09/E20	TAPPI T809-OM	Flat Crush of Corrugating Medium (CMT Test)
09/E21	TAPPI T818-OM ASTM D1164	Ring Crush of Paperboard
<u>Pressure Sensitive Tapes</u>		
09/G01	ASTM D3330, D3330M	Test for Peel Adhesion of Pressure-Sensitive Tape at 180-deg Angle
09/G02	ASTM D3652	Test for Thickness of Pressure-Sensitive and Gummed Tapes
09/G03	ASTM D3654, D3654M	Test for Holding Power of Pressure-Sensitive Tapes
09/G04	ASTM D3662	Test for Bursting Strength of Pressure-Sensitive Tapes
09/G05	ASTM D3715	Practice for Quality Assurance of Pressure-Sensitive Tapes
<u>Packaging</u>		
09/H01	ASTM D642	Compression Test for Shipping Containers
09/H02	ASTM D895	Test for Water Vapor Permeability of Packages
09/H03	ASTM D1008	Tests for Water Vapor Transmission of Shipping Containers
<u>Federal Test Method Standard 101C for Preservation, Packaging, and Packaging Materials:</u>		
09/H07	Method 5005.1	Cornerwise Drop (Rotational) Test
09/H08	Method 5007.1	Drop Test (Free Fall)
09/H09	Method 5008.1	Edgewise Drop (Rotational) Test
09/H19	Method 5019.1	Vibration (Repetitive Shock) Test
09/H20	Method 5020.1	Vibration (Sinusoidal Motion) Test
09/H27	TAPPI T8080S	Flat Crush Test of Corrugated Board
09/H28	TAPPI T8100M	Bursting Strength of Corrugated and Solid Fiberboard
09/H29	TAPPI T8110S	Edgewise Compressive Strength of Corrugated Fiberboard (Short Column Test)
09/H30	TAPPI T821PM	Pin Adhesion of Corrugated Board by Selective Separation

UNITED STATES TESTING COMPANY, INC.
 CHEMICAL SERVICES DIVISION
 1415 Park Avenue, Hoboken, NJ 07030
 Stephen C. Pevera Phone: 201-792-2400

Accreditation Renewal Date: January 1, 1988

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
<u>Measurements of Intrinsic Physical Properties</u>		
09/A01	ASTM D56	Flash Point by Tag Closed Tester
09/A02	ASTM D93	Flash Point by Pensky-Martens Closed Tester, Methods A & B
09/A03	ASTM D153	Specific Gravity of Pigments
09/A04	ASTM D185	Coarse Particles in Pigments, Pastes and Paints
09/A05	ASTM D281*	Oil Absorption of Pigments by Spatula Rub-Out
09/A07	ASTM D523	Specular Gloss
09/A08	ASTM D562	Consistency of Paints Using the Stormer Viscometer Procedures A & B
09/A11	ASTM D1200	Viscosity of Paints, Varnishes, and Lacquers by Ford Viscosity Cup
09/A12	ASTM D1210	Fineness of Dispersion of Pigment-Vehicle Systems
09/A13	ASTM D1212	Wet Film Thickness of Organic Coatings, Methods A & B
09/A15	ASTM D1310	Flash-Point of Liquids by Tag Open-Cup Apparatus
09/A16	ASTM D1400	Dry Film Thickness of Non-conductive Coatings Applied to a Nonferrous Metal Base
09/A17	ASTM D1475	Density of Paint, Varnish, Lacquer, and Related Products
09/A20	ASTM D2244	Instrumental Evaluation of Color Difference of Opaque Materials
09/A21	ASTM D3278	Flash Point of Liquids by Setaflash Closed Tester, Methods A & B
09/A22	ASTM D3363	Film Hardness by Pencil Test
09/A25	ASTM D4212	Viscosity by Dip-Type Viscosity Cups
<u>Measurements of Performance and Performance Change</u>		
09/B04	ASTM D610	Rusting on Painted Steel Surfaces
09/B05	ASTM D659	Chalking of Exterior Paints
09/B06	ASTM D660	Checking of Exterior Paints
09/B07	ASTM D661	Cracking of Exterior Paints
09/B08	ASTM D662	Erosion of Exterior Paints
09/B10	ASTM D714	Blistering of Paints
09/B11	ASTM D772	Flaking (Scaling) of Exterior Paints
09/B12	ASTM D821	Abrasion, Erosion or a Combination of Both in Road Service Tests of Traffic Paints
09/B13	ASTM D868	Bleeding of Traffic Paint
09/B15	ASTM D870	Water Immersion Test of Organic Coatings on Steel
09/B16	ASTM D913	Chipping of Traffic Paint
09/B17	ASTM D968	Abrasion Resistance of Organic Coatings by the Falling Abrasive Tester, Methods A & B
09/B19	ASTM D1308	Effect of Household Chemicals on Clear and
09/B21	ASTM D1360	Fire-Retardancy of Paints (Cabinet Method)
09/B23	ASTM D1640	Drying, Curing, or Film Formation of Organic
09/B24	ASTM D1737	Elongation of Attached Organic Coatings with Cylindrical Mandrel Apparatus
09/B25	ASTM D2197	Adhesion of Organic Coatings, Methods A & B
09/B26	ASTM D2243	Freeze-Thaw Resistance of Latex and Emulsion Paints
09/B27	ASTM D2248	Detergent Resistance of Organic Finishes
09/B29	ASTM D2486	Scrub Resistance of Interior Latex Flat Wall Paints
09/B30	ASTM D2801	Leveling Characteristics of Paints by Draw-Down Method
09/B33	ASTM D3274	Surface Disfigurement of Paint Films by Fungal Growth or Soil and Dirt Accumulation
09/B34	ASTM D3450	Washability Properties of Interior Architectural Coatings
09/B37	ASTM D4060	Abrasion Resistance of Organic Coatings by the Taber Abraser
09/B40	ASTM D4214	Chalking of Exterior Paint Films, Methods A, B, C, D, & E
09/B41	Fed. Std. 141 Method 4494	Sag Test (Multinotch Blade)
09/B42	Fed. Std. 141 Method 4061	Drying Time

Measurement of Chemical Properties and Compositions

09/C02	ASTM D95	Water in Petroleum Products and Bituminous Materials by Distillation
09/C06	ASTM D1078	Distillation Range of Volatile Organic Liquids
09/C09	ASTM D1259	Nonvolatile Content of Resin Solutions, Methods A & B
09/C11	ASTM D1353	Nonvolatile Matter in Volatile Solvents for Use in Paint, Varnish, Lacquer and Related Products
09/C12	ASTM D1364	Water in Volatile Solvents (Fischer Reagent Titration Method)
09/C15	ASTM D1398	Fatty Acid Content of Alkyd Resins and Alkyd Resin Solutions, Methods A & B
09/C19	ASTM D1541	Total Iodine Value of Drying Oils and Their Derivatives
09/C20	ASTM D1613	Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer and Related Products
09/C21	ASTM D1639	Acid Value of Organic Coating Materials
09/C22	ASTM D1644	Nonvolatile Content of Varnishes, Methods A & B
09/C23	ASTM D1652	Epoxy Content of Epoxy Resins
09/C24	ASTM D2075	Iodine Value of Fatty Amines, Amidoamines, and Diamines
09/C25	ASTM D2076	Acid Value and Amine Value of Fatty Quaternary Ammonium Chlorides
09/C26	ASTM D2369	Volatile Content of Paints, Procedures A & B
09/C27	ASTM D2371	Pigment Content of Solvent-Type Paints
09/C28	ASTM D2697	Volume Nonvolatile Matter in Clear or Pigmented Coatings
09/C29	ASTM D2698	Pigment Content Of Solvent-Type Paints by High-Speed Centrifuging
09/C31	ASTM D3009	Composition of Turpentine by Gas Chromatography
09/C32	ASTM D3271	Direct Injection of Solvent-Base Paints into a Gas Chromatograph for Solvent Analysis
09/C33	ASTM D3272	Vacuum Distillation of Solvents from Solvent-Base Paints for Analysis
09/C37	ASTM D3723	Pigment Content of Water-Emulsion Paints by Low-Temperature Ashing
09/C38	ASTM D3792	Water Content of Waterborne Paints by Direct Injection into a Gas Chromatograph
09/C39	ASTM D3960	Volatile Organic Contents (VOC) of Paints and Related Coatings
09/C40	ASTM D4017	Water in Paints and Paint Materials by Karl Fischer Method

Test Sample Conditioning and Preparation

09/D01	ASTM B117	Salt Spray (Fog) Testing
09/D02	ASTM D609	Preparation of Steel Panels for Testing Paints, Varnish, Lacquer, and Related Products, Methods A, B, C, & D
09/D04	ASTM D823	Producing Films of Uniform Thickness of Paint, Varnish, Lacquer, and Related Products on Test Panels, Method B
09/D07	ASTM D1654	Painted or Coated Specimens Subjected to Corrosive Environments, Procedures A & B
09/D08	ASTM D1730	Preparation of Aluminum and Aluminum-Alloy Surfaces for Painting, Types A & B
09/D11	ASTM D2372	Separation of Vehicle Solvent-Type Paints
09/D13	ASTM D3924	Standard Environment for Conditioning and Testing Paint, Varnish, Lacquer, and Related Materials
09/D16	ASTM G53	Operating Light and Water-Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials

NVLAP LAB CODE 0267

RETLIF, INC. TESTING LABORATORIES
795 Marconi Avenue, Ronkonkoma, NY 11779
Walter A. Poggi Phone: 516-737-1500

Accreditation Renewal Date: October 1, 1987

NVLAP Test Method Code Test Method Designation

12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz FCC Method - 47 CFR Part 15 Subpart J
12/R01	Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J

12/T01 Terminal Equipment Compatibility
FCC Method - 47 CFR Part 68 Subpart D

68.302 Environmental simulation, Para. c, d, e, f
68.304 Leakage current limitations
68.306 Hazardous voltage limitations
68.308 Signal power limitations
68.310 Longitudinal balance limitations
68.312 On-hook impedance limitations
68.314 Billing protection

12/T02 Terminal Equipment Compatibility
FCC Method - 47 CFR Part 68 Subpart D

68.316 Hearing aid compatibility: technical standards

12/T03 Terminal Equipment Compatibility
FCC Method - 47 CFR Part 68 Subpart D

68.302 Environmental simulation, Para. a, b

NVLAP LAB CODE 0268

EMACO, INC.
7562 Trade Street, San Diego, CA 92121
Herbert K. Mertel Phone 619-578-1480

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Test Method Code</u>	<u>Test Method Designation</u>
12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz FCC Method - 47 CFR Part 15 Subpart J
12/R01	Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J

NVLAP LAB CODE 0269

NORAND CORPORATION
550 Second Street, S.E., Cedar Rapids, IA
Michael W. Howard Phone: 319-369-3539

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Test Method Code</u>	<u>Test Method Designation</u>
12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz FCC Method - 47 CFR Part 15 Subpart J
12/R01	Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J

NVLAP LAB CODE 0270

DASH, STRAUS, & GOODHUE, INC.
593 Massachusetts Avenue, Boxborough, MA 01719
Glen Dash Phone: 617-263-2662

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Test Method Code</u>	<u>Test Method Designation</u>
12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz FCC Method - 47 CFR Part 15 Subpart J
12/R01	Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J

12/T01 Terminal Equipment Compatibility
 FCC Method - 47 CFR Part 68 Subpart D
 68.302 Environmental simulation, Para. c, d, e, f
 68.304 Leakage current limitations
 68.306 Hazardous voltage limitations
 68.308 Signal power limitations
 68.310 Longitudinal balance limitations
 68.312 On-hook impedance limitations
 68.314 Billing protection

12/T02 Terminal Equipment Compatibility
 FCC Method - 47 CFR Part 68 Subpart D
 68.316 Hearing aid compatibility: technical standards

NVLAP LAB CODE 0271

AMADOR CORPORATION
 Wild Mountain Road, Almelund, MN 55002
 Daniel D. Hoolihan Phone: 612-583-3322

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Test Method Code</u>	<u>Test Method Designation</u>
12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz FCC Method - 47 CFR Part 15 Subpart J
12/R01	Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J
12/T01	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D 68.302 Environmental simulation, Para. c, d, e, f 68.304 Leakage current limitations 68.306 Hazardous voltage limitations 68.308 Signal power limitations 68.310 Longitudinal balance limitations 68.312 On-hook impedance limitations 68.314 Billing protection
12/T02	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D 68.316 Hearing aid compatibility: technical standards

NVLAP LAB CODE 0272

COMMUNICATION CERTIFICATION LABORATORY
 1940 West Alexander Street, Salt Lake City, UT 84119
 Thomas C. Jackson Phone: 801-972-6146

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Test Method Code</u>	<u>Test Method Designation</u>
12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz FCC Method - 47 CFR Part 15 Subpart J
12/R01	Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J
12/T01	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D 68.302 Environmental simulation, Para. c, d, e, f 68.304 Leakage current limitations 68.306 Hazardous voltage limitations

68.308 Signal power limitations
 68.310 Longitudinal balance limitations
 68.312 On-hook impedance limitations
 68.314 Billing protection
 12/T02 Terminal Equipment Compatibility
 FCC Method - 47 CFR Part 68 Subpart D
 68.316 Hearing aid compatibility: technical standards
 12/T03 Terminal Equipment Compatibility
 FCC Method - 47 CFR Part 68 Subpart D
 68.302 Environmental simulation, Para. a, b

NVLAP LAB CODE 0273

MET ELECTRICAL TESTING COMPANY, INC.
 916 West Patapsco Avenue, Baltimore, MD 21230
 Leonard Frier Phone: 301-354-2200

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Test Method Code</u>	<u>Test Method Designation</u>
12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz FCC Method - 47 CFR Part 15 Subpart J
12/R01	Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J
12/T01	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D
	68.302 Environmental simulation, Para. c, d, e, f 68.304 Leakage current limitations 68.306 Hazardous voltage limitations 68.308 Signal power limitations 68.310 Longitudinal balance limitations 68.312 On-hook impedance limitations 68.314 Billing protection
12/T02	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D
	68.316 Hearing aid compatibility: technical standards
12/T03	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D
	68.302 Environmental simulation, Para. a, b

NVLAP LAB CODE 0274

GTE EVALUATION & SUPPORT DEPARTMENT
 3050 Harrodsburg Road, Lexington, KY 40503
 Clifford Eugene Jones Phone: 606-223-3061

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Test Method Code</u>	<u>Test Method Designation</u>
12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz FCC Method - 47 CFR Part 15 Subpart J
12/R01	Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J
12/T01	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D
	68.302 Environmental simulation, Para. c, d, e, f 68.304 Leakage current limitations 68.306 Hazardous voltage limitations

68.308 Signal power limitations
 68.310 Longitudinal balance limitations
 68.312 On-hook impedance limitations
 68.314 Billing protection
 12/T02 Terminal Equipment Compatibility
 FCC Method - 47 CFR Part 68 Subpart D
 68.316 Hearing aid compatibility: technical standards
 12/T03 Terminal Equipment Compatibility
 FCC Method - 47 CFR Part 68 Subpart D
 68.302 Environmental simulation, Para. a, b

NVLAP LAB CODE 0275

AT & T INFORMATION SYSTEMS
 EMC LABORATORY
 MS: Building 41-112, Crawfords Corner Road, Holmdel, NJ 07733
 D.N. Heirman Phone: 201-834-3566

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Test Method Code</u>	<u>Test Method Designation</u>
12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz FCC Method - 47 CFR Part 15 Subpart J
12/R01	Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J

NVLAP LAB CODE 0276

D.L.S. ELECTRONIC SYSTEMS, INC.
 10350 Dearlove Road, Glenview, IL 60025
 Donald L. Sweeney Phone: 312-699-9060

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Test Method Code</u>	<u>Test Method Designation</u>
12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz FCC Method - 47 CFR Part 15 Subpart J
12/R01	Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J

NVLAP LAB CODE 0277

CONTINENTAL TESTING LABORATORIES
 8385 South U.S. Highway 17-92, Fern Park, FL 3730-2898
 Chester A. Mitchell Phone: 305-831-2700

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Test Method Code</u>	<u>Test Method Designation</u>
12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz FCC Method - 47 CFR Part 15 Subpart J
12/R01	Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J
12/T01	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D
	68.302 Environmental simulation, Para. c, d, e, f 68.304 Leakage current limitations 68.306 Hazardous voltage limitations

68.308 Signal power limitations
 68.310 Longitudinal balance limitations
 68.312 On-hook impedance limitations
 68.314 Billing protection
 12/T02 Terminal Equipment Compatibility
 FCC Method - 47 CFR Part 68 Subpart D
 68.316 Hearing aid compatibility: technical standards
 12/T03 Terminal Equipment Compatibility
 FCC Method - 47 CFR Part 68 Subpart D
 68.302 Environmental simulation, Para. a, b

NVLAP LAB CODE 0278

ELITE ELECTRONIC ENGINEERING COMPANY
 1516 Centre Circle, Downers Grove, IL 60515
 James C. Klouda Phone: 312-495-9700

Accreditation Renewal Date: October 1, 1987

<u>NVLAP Test Method Code</u>	<u>Test Method Designation</u>
12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz FCC Method - 47 CFR Part 15 Subpart J
12/R01	Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J
12/T01	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D
	68.302 Environmental simulation, Para. c, d, e, f 68.304 Leakage current limitations 68.306 Hazardous voltage limitations 68.308 Signal power limitations 68.310 Longitudinal balance limitations 68.312 On-hook impedance limitations 68.314 Billing protection
12/T02	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D 68.316 Hearing aid compatibility: technical standards
12/T03	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D 68.302 Environmental simulation, Para. a, b

NVLAP LAB CODE 0279

PHILIPPINE GEOANALYTICS
 No. 3 Scout Magbanua
 Quezon City, Metro Manila, Philippines
 Emilio M. Morales Telex: 66156 HDADB PN

Accreditation Renewal Date: July 1, 1987

<u>NVLAP Code</u>	<u>Designation</u>	<u>Short Title</u>
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231	Making and Curing Test Specimens Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content Air Content-Pressure Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

R & B ENTERPRISES
 20 Clipper Road West Conshohocken, PA 19428,
 Finbarr M. O'Connor, Jr. Phone: 215-825-1960

Accreditation Renewal Date: October 1, 1987

NVLAP Test Method Code	Test Method Designation
12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz FCC Method - 47 CFR Part 15 Subpart J
12/R01	Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J
12/T01	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D
	68.302 Environmental simulation, Para. c, d, e, f 68.304 Leakage current limitations 68.306 Hazardous voltage limitations 68.308 Signal power limitations 68.310 Longitudinal balance limitations 68.312 On-hook impedance limitations 68.314 Billing protection
12/T02	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D
	68.316 Hearing aid compatibility: technical standards

STANDARD T CHEMICAL TECHNICAL CENTER
 10th & Washington Streets Chicago Heights, IL 60411
 Mr. L.G. Hering 312-755-1223

Accreditation Renewal Date: October 1, 1987

NVLAP Code	Test Method Designation	Short Title
<u>Measurements of Intrinsic Physical Properties</u>		
09/A01	ASTM D56	Flash Point by Tag Closed Tester
09/A07	ASTM D523	Specular Gloss
09/A08	ASTM D562	Consistency of Paints Using the Stormer Viscometer Procedures A & B
09/A12	ASTM D1210	Fineness of Dispersion of Pigment-Vehicle Systems
09/A15	ASTM D1310	Flash-Point of Liquids by Tag Open-Cup Apparatus
09/A17	ASTM D1475	Density of Paint, Varnish, Lacquer, and Related Products
09/A26	ASTM E97	45- deg, 0-deg Directional Reflectance Factor of Opaque Specimens by Broad-Band Filter Reflectometry
09/A28	ASTM E313	Indexes of Whiteness and yellowness of Near-White Opaque Materials
<u>Measurements of Performance and Performance Change</u>		
09/B03	ASTM D344	Relative Dry Hiding Power of Paints
09/B05	ASTM D659	Chalking of Exterior Paints
09/B06	ASTM D660	Checking of Exterior Paints
09/B07	ASTM D661	Cracking of Exterior Paints
09/B08	ASTM D662	Erosion of Exterior Paints
09/B10	ASTM D714	Blistering of Paints
09/B11	ASTM D772	Flaking (Scaling) of Exterior Paints
09/B23	ASTM D1640	Drying, Curing, or Film Formation of Organic
09/B29	ASTM D2486	Scrub Resistance of Interior Latex Flat Wall Paints
09/B30	ASTM D2801	Leveling Characteristics of Paints by Draw-Down Method
09/B32	ASTM D3273	Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber

09/B33	ASTM D3274	Surface Disfigurement of Paint Films by Fungal Growth or Soil and Dirt Accumulation
09/B34	ASTM D3450	Washability Properties of Interior Architectural Coatings
09/B37	ASTM D4060	Abrasion Resistance of Organic Coatings by the Taber Abraser
09/B38	ASTM D4062	Leveling of Paints by Draw-Down Method
09/B40	ASTM D4214	Chalking of Exterior Paint Films
09/B41	Fed. Std. 141 Method 4494	Sag Test (Multinotch Blade)

NVLAP LAB CODE 0501

BALTIMORE GAS & ELECTRIC COMPANY, CALVERT CLIFFS NUCLEAR POWER PLANT
 NUCLEAR POWER DEPARTMENT, DOSIMETRY UNIT
 RADIATION SAFETY SECTION
 Lusby, MD 20657

• Eugene T. Reimer Phone: 301-269-4716

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories II, IV, V, VII, VIII.

NVLAP LAB CODE 0502

UNION ELECTRIC COMPANY
 CALLAWAY PLANT
 P.O. Box 620, Fulton, MO 65251
 Ron Roselius Phone: 314-676-8321

Accreditation Renewal Date: April 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702E.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories II, VI, VII, VIII.

NVLAP LAB CODE 0503

MALLINCKRODT DIAGNOSTICS, INC.
 2703 Wagner Place, Maryland Heights, MO 63043
 LeeAnn Borcherding Phone: 314-344-3981

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing Harshaw Automatic readers model 2000B and 2000D.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Harshaw TLD model 100 for ANSI-N13.11 category VII.

NVLAP LAB CODE 0504

NAVAL MEDICAL COMMAND
NATIONAL CAPITAL REGION
RADIATION SAFETY DEPARTMENT
Bethesda, MD 20814
Robert T. Devine Phone: 202-295-5414

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a Harshaw Automatic reader model 2271 and Manual film processing using a Macbeth densitometer.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Harshaw TLO Albedo (1 TLD 600, 1 TLD 700) for ANSI-N13.11 categories II, IV, VIII.

Film Badge (Kodak Type 3) for ANSI-N13.11 Categories III, IV, V, VI, VII.

NVLAP LAB CODE 0505

DUKE POWER COMPANY, DOSIMETRY LABORATORY
Physical Sciences Building
Route 4, Box 531, Huntersville, NC 28078
Wanda M. Carter Phone: 704-875-1971

Accreditation Renewal Date: April 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing Teledyne Automatic readers model 9100 and 9150, and Teledyne Manual readers model 8300 and 8310.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Teledyne TLD model BP3 for ANSI-N13.11 categories II, IV, V, VII.

NVLAP LAB CODE 0506

SOUTHERN CALIFORNIA EDISON
SAN ONOFRE NUCLEAR GENERATING STATION
P.O. Box 128, San Clemente, CA 92672
Robert Dickey Phone: 714-368-6254

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802-AS2 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII.

NVLAP LAB CODE 0508

NEW YORK POWER AUTHORITY
INDIAN POINT UNIT NO. 3 NUCLEAR POWER PLANT
P.O. Box 215, Buchanan, NY 10511
Thomas Labenski Phone: 914-739-8200

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710B and Panasonic Manual reader UD702E.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD806AQ for ANSI-N13.11 categories I, II, III, IV, V, VI, VII.

NVLAP LAB CODE 0509

NAVAL RESEARCH LABORATORY
Code 4073, Washington, DC 20375
Kirk J. King Phone: 202-767-2232

Accreditation Renewal Date: January 1, 1989

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw Automatic reader model 2271.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

NRL Radiation Badge for ANSI-N13.11 categories II, III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0510

GENERAL PUBLIC UTILITIES NUCLEAR CORPORATION
DIVISION OF RADIOLOGICAL & ENVIRONMENTAL CONTROLS
Route 441 South, P.O. Box 480, Middletown, PA 17057
O. Ronald Perry Phone: 717-948-8595

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802-2 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, and Panasonic TLD model UD802-2N for ANSI-N13.11 categories IV, VIII.

NVLAP LAB CODE 0511

NEW YORK POWER AUTHORITY
JAMES A. FITZPATRICK NUCLEAR POWER PLANT
P.O. Box 41, Lycoming, NY 13093
Mr. George J. Vargo Phone: 315-342-3840

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD812 for ANSI-N13.11 categories II, IV, VI, VII.

NVLAP LAB CODE 0512

RADIATION DETECTION COMPANY
162 Wolfe Road, P.O. Box 1414, Sunnyvale, CA 94088
Richard H. Holden Phone: 408-735-8700

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing (1) modified CON RAD readers; (2) Teledyne 7100 reader; (3) Teledyne 7300 reader; (4) Harshaw 3000 reader; (5) Victoreen 2800 reader; (6) by manual film processing and reading on a Macbeth TD502 densitometer; or (7) Tracketch, NTA manual optical readers.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

<u>Designation</u>	<u>Process</u>	<u>ANSI N13.11 Categories</u>
Hi Energy TLD	1	II, IV
Beta TLD	1,3*	V, VII
Lo Energy TLD	1,3*	I, III, VI
TLD Albedo	3*,6	VIII
Film XBG	6	I, II, III, IV, V, VI, VII
Film XBGN	6,7	VIII
Neutron Tracketch	7	VIII

* Processes listed above 2, 4, and 5 are considered functionally acceptable as substitutes which can be used in lieu of process 3 as listed above.

NVLAP LAB CODE 0513

GULF NUCLEAR, INC.
100 E. NASA Road One, #411, Webster, TX 77598
Joseph Pryber Phone: 713-338-2652

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Teledyne Automatic reader model 9150.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Teledyne TLD model PB3 loaded with a RGD-CaSO₄:Dy-0.4 B/G card and a RGD-6LiF/CaSO₄:Dy-0.4 Neutron card for ANSI-13.11 categories I, II, III, IV, V, VI, VII, and VIII.

NVLAP LAB CODE 0514

ROCHESTER GAS & ELECTRIC CORP.
R.E. GINNA NUCLEAR POWER PLANT
1503 Lake Road, Ontario, NY 14519
Bernard R. Quinn Phone: 315-524-4446

Accreditation Renewal Date: October 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702A..

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0515

THERMO ANALYTICAL INC.
TMA/EBERLINE
5635 Kircher Boulevard NE
Post Office Box 3874
Albuquerque, NM 87190-3874
Nels Johnson Phone: 505-345-9931

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Eberline Manual reader TLR-6.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Eberline TLD (2 or 3 Harshaw TLD 100 chips) for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

Eberline Albedo (4 TLD100 chips) for ANSI-N13.11 Category VIII.

NVLAP LAB CODE 0516

TENNESSEE VALLEY AUTHORITY, DOSIMETRY LABORATORY
WESTERN AREA RADIOLOGICAL LABORATORY
Muscle Shoals, AL 35660
S. Glenn Bugg Phone: 205-386-2075

Accreditation Renewal Date: April 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

The following sites are included in the accreditation as sub-facilities of the above listed main facility and are accredited for the same equipment and dosimeter listed.

Browns Ferry Nuclear Plant, Decatur, Alabama
Watts Bar Nuclear Plant, Spring City, Tennessee
Sequoyah Nuclear Plant, Daisy, Tennessee

NVLAP LAB CODE 0517

CAROLINA POWER & LIGHT COMPANY
HARRIS ENERGY & ENVIRONMENTAL CENTER
Route 1, Box 327, New Hill, NC 27562
Stephen A. Browne Phone: 919-362-3212

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702E.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

The following sites are included in the accreditation as sub-facilities of the above listed main facility. These sub-facilities are accredited by virtue of using identical equipment and procedures as indicated above.

Robinson Nuclear Plant, Hartsville, South Carolina
Brunswick Nuclear Plant, Southport, North Carolina
Harris Nuclear Project, New Hill, North Carolina

NVLAP LAB CODE 0518

R.S. LANDAUER JR. & COMPANY
Glenwood Science Park, 2 Science Park, Glenwood, IL 60425
Craig Yoder Phone: 312-755-7000

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing (1) automatic film reader Tech/Ops model 1; (2) Harshaw Atlas Hotgas reader; (3) Harshaw 2271 reader; (4) NTA/Polycarbonate /CR-39 manual optical readers; or (5) manual densitometers X-Rite, Tech/Ops model 301, Macbeth model TD504.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Landauer designation

	<u>Film</u>	<u>Process</u>	<u>ANSI N13.11 Category</u>
G	- Film "GARDRAY"	1,5	I, II, III, IV, V, VI, VII
P	- G badge plus NTA	1,4,5	VIII
A	- G badge plus polycarbonate	1,4	VIII

TLD

L	- 4 chip "GARDRAY"	2	I, II, III, IV, V, VI, VII
D	- 3 700 chip Harshaw card	3	II, IV, V, VII
I	- Neutrak ER	3,4	VIII
T modified	- 3 100/700 chips	2	I, II, III, IV, V, VI, VII

The facility is accredited to process the following dosimeters which have been deemed functionally acceptable by virtue of using identical techniques and equipment to process combinations of elements demonstrated above.

Landauer designation

	<u>Film</u>	<u>Process</u>	<u>ANSI N13.11 Category</u>
B	- G badge plus CR-39	1,4,5	I through VIII
C	- G badge plus CR-39 and Cadmium	1,4,5	I through VIII
P	- G badge plus NTA	1,4,5	I, II, III, IV, V, VI, VII, VIII
H	- G badge plus NTA and Cadmium	1,4,5	I through VIII
A	- G badge plus polycarbonate	1,4,5	I, II, III, IV, V, VI, VII, VIII
J	- G badge plus polycarbonate and Cadmium	1,4,5	I, II, III, IV, V, VI, VII, VIII
Y	- G badge plus Cadmium	1,4,5	I through VII
R	- G badge plus ER	1,3,4,5	I, II, III, IV, V, VI, VII, VIII
Q	- DEX-RAY	1,4,5	I, III

TLD

F	- L badge plus CR-39	2,4	I through VIII
- L badge plus polycarbonate	2,4	I through VIII	
- L badge plus ER	2,3,4	I through VIII	
T	- 2 chip	2	II, IV, V, VII

The following sites are included in the accreditation as sub-facilities of the above listed main facility.

The following sub-facilities are accredited to process the Landauer "D" badge employing a Harshaw 2271 automatic TLD reader for ANSI N13.11 categories II, IV, V, VII which have been deemed functionally acceptable by virtue of using identical techniques and procedures as demonstrated above for the items specified.

R.S. Landauer, Jr. & Company Nuclear Station System (NSS) sites at:

Boston Edison Company, Pilgrim Station, Plymouth, Massachusetts
Alabama Power, Farley Nuclear Plant, Ashford, Alabama

The following sub-facilities are accredited to perform limited volume, emergency response processing employing either a Marshaw 3000 manual reader or manual film processing techniques for the following badges:

G - Film "GARDRAY"	ANSI N13.11 Categories I, II, III, IV, V, VI, VII
L - TLD 4 chip "GARDRAY"	ANSI N13.11 Categories I, II, III, IV, V, VI, VII
T - TLD 2 chip	ANSI N13.11 Categories II, IV, V, VII

R. S. Landauer, Jr. & Company Offices: El Segundo, California; Houston, Texas; Burlington, Massachusetts; and East Brunswick, New Jersey.

The following sub-facility is accredited to process 4 Chip TLD 700 (LF.) Marshaw card used with a Marshaw Type 80 Holder the Landauer NSS/PPSL dosimeter employing a Marshaw automatic reader type 2276 or a manual type 2000A or B by virtue of actual demonstration of compliance with ANSI N13.11-1983 through testing in Categories I, II, III, IV, V, VI, VII.

Pennsylvania Power & Light-N.S.S., 2 North Ninth Street, Allentown, PA 18101

NVLAP LAB CODE 0519

HOUSTON LIGHTING & POWER COMPANY, MANAGING PARTNER
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION
P.O. Box 1700, Houston, TX 77059
Gene R. Jarvela Phone: 512-972-3651

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD Model UD802 for ANSI-N13.11 categories II, IV, VII.

NVLAP LAB CODE 0520

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION
P.O. Box 402, Mineral, VA 23117
Henry F. Kahnhauser Phone: 703-894-5151

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing Teledyne Automatic readers model 9100 and 9150, and Teledyne Manual readers model 8300 and 8310.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Teledyne TLD model BP3 for ANSI-N13.11 categories II, IV, V, VII.

NVLAP LAB CODE 0521

DUQUESNE LIGHT COMPANY
NUCLEAR DIVISION - BEAVER VALLEY POWER STATION
P.O. Box 4, Shippingport, PA 15077
Robert M. Vento Phone: 412-393-5722

Accreditation Renewal Date: October 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD812 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII.

NVLAP LAB CODE 0522

CONSUMERS POWER COMPANY
PERSONNEL DOSIMETRY LABORATORY
1945 Parnall Road, Jackson, MI 49201
Karl H. Andrews Phone: 517-788-0433

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Teledyne Automatic reader model 9100.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Teledyne TLD model BG for ANSI-N13.11 categories II, IV, V, VII.

Teledyne TLD model BGN for ANSI-N13.11 category VIII.

NVLAP LAB CODE 0523

VIRGINIA ELECTRIC & POWER COMPANY
SURRY POWER STATION
P.O. Box 315, Surry, VA 23883
Dean Densmore Phone: 804-357-3184

Accreditation Renewal Date: January 1, 1989

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing Teledyne Automatic readers model 9100 and 9150, and Teledyne Manual reader model 8300.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Teledyne TLD model PB3 for ANSI-N13.11 categories II, IV, V, VII.

NVLAP LAB CODE 0524

YANKEE ATOMIC ELECTRIC COMPANY
1671 Worcester Road, Framingham, MA 01701
Neill Stanford Phone: 617-872-8100

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw Automatic reader model 2271.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Harshaw TLD model BGN for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, and VIII.

NVLAP LAB CODE 0525

OMAHA PUBLIC POWER DISTRICT
1623 Harney Street, Omaha, NE 68102
Marilyn Hawes Phone: 402-536-4696

Accreditation Renewal Date: April 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Marshaw Automatic reader model 2000B and a Marshaw Manual reader model 2000C.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Marshaw TLD model BG for ANSI-N13.11 categories II, IV, V, VII, and Marshaw TLD model GBN for ANSI-N13.11 category VIII.

NVLAP LAB CODE 0526

KANSAS GAS AND ELECTRIC COMPANY
WOLF CREEK GENERATING STATION
P.O. Box 309, Burlington, KS 66839
Larry Breshears Phone: 316-364-8831

Accreditation Renewal Date: January 1, 1989

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and manual reader 702E.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories II, III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0528

TEXAS UTILITIES GENERATING COMPANY
COMANCHE PEAK STEAM ELECTRIC STATION
P.O. Box 2300, Glen Rose, TX 76043
John J. O'Donnell Phone: 817-897-4856

Accreditation Renewal Date: July 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702E.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0529

DETROIT EDISON COMPANY
HEALTH PHYSICS/DOSIMETRY
6400 North Dixie Highway, Newport, MI 48166
Robert Koback Phone: 313-586-1037

Accreditation Renewal Date: October 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0530

LOUISIANA POWER AND LIGHT COMPANY
WATERFORD 3 STEAM ELECTRIC STATION
P.O. Box B, Killona, LA 70066
Ronald C. McLendon Phone: 504-464-3269

Accreditation Renewal Date: October 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702E.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0531

PUBLIC SERVICE ELECTRIC AND GAS COMPANY
NUCLEAR DEPARTMENT - RADIATION PROTECTION SERVICES
P.O. Box 236, Hancocks Bridge, NJ 08038
Jeffrey L. Kotsch Phone: 609-339-4568

Accreditation Renewal Date: October 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0532

SIEMENS GAMMASONICS, INC.
2000 Nuclear Drive, Des Plaines, IL 60018
Robert W. Pollock Phone: 312-635-3396

Accreditation Renewal Date: January 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw Atlas reader and Manual film processing using a custom densitometer.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Siemens TLD (3 TLD 100, LiF. chips) for ANSI-N13.11 Categories I, II, III, IV, V, VI, VII.
Siemens Film Badge (Kodak Type 3, CR-39) for ANSI-N13.11 Categories III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0533

TELEDYNE ISOTOPES
50 Van Buren Avenue, Westwood, NJ 07675
George Ascione Phone: 201-664-7070

Accreditation Renewal Date: October 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing Teledyne Automatic readers model 9100 and 9150, and Teledyne Manual readers model 8300 and 7300.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Teledyne TLD model PB3 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII,

Teledyne TLD model PB2 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0534

GULF STATES UTILITIES - RIVER BEND STATION
DOSIMETRY GROUP
P.O. Box 220, St. Francisville, LA 70775
Dwight M. Ross Phone: 504-635-6094

Accreditation Renewal Date: July 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0536

ARIZONA NUCLEAR POWER PROJECT-PVNCS
P.O. Box 21666, Station 6075, Phoenix, AZ 85036
Michael W. Lantz Phone: 602-932-5300

Accreditation Renewal Date: October 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD720.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD812 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII.

Panasonic TLD combination UD809 and UD812 for ANSI-N13.11 category VIII.

NVLAP LAB CODE 0537

PACIFIC GAS AND ELECTRIC
DIABLO CANYON POWER PLANT
Box 337, Avila Beach, CA 93424
Don Jones Phone: 805-595-7448

Accreditation Renewal Date: October 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702E.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories II, III, IV, V, VI, VII, VIII,

Panasonic TLD model UD813/802 for ANSI-N13.11 category VIII.

NVLAP LAB CODE 0538

CON EDISON INDIAN POINT STATION
Broadway and Bleakly Avenue, Buchanan, NY 10511
Philip J. Gaudio Phone: 914-526-5248

Accreditation Renewal Date: April 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories II, III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0539

U.S. ARMY IONIZING RADIATION DOSIMETRY CENTER
Attn: AMXTM-CE-DC, Lexington, KY 40511
A. Edward Abney Phone: 606-293-3249

Accreditation Renewal Date: January 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing Manual film processing and using a Macbeth model TD-504 densitometer.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Film Badge (Kodak Type 3) for ANSI-N13.11 Categories I, II, III, IV, V, VI, VII.

Film Badge (Kodak Type A) for ANSI-N13.11 Category VIII.

NVLAP LAB CODE 0540

NORTHEAST UTILITIES SERVICE COMPANY
RADIOLOGICAL ASSESSMENT BRANCH
P.O. Box 270, Hartford, CT 06141
Henry W. Siegrist Phone: 203-665-3591

Accreditation Renewal Date: January 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing Teledyne Automatic reader model 9100, and Teledyne Manual reader model 8300.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Teledyne TLD model PB3 for ANSI-N13.11 categories II, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0541

COMMONWEALTH EDISON COMPANY
72 West Adams Street, Room 1248
Eileen A. O'Connor Phone: 312-294-8520

Accreditation Renewal Date: January 1, 1988

Dresden Station
Quad Cities Station
Zion Station

These facilities listed have been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A.

These facilities are accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII.

NVLAP LAB CODE 0542

ARIZONA STATE UNIVERSITY
RADIATION MEASUREMENTS FACILITY
College of Engineering and Applied Sciences
Electrical and Computer Engineering
Tempe, AZ 85287
G. William Klingler Phone: 602-965-065

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD812 for ANSI-N13.11 category IV.

NVLAP LAB CODE 0543

NEW HAMPSHIRE YANKEE
SEABROOK STATION
P.O. Box 300, Route 1, Seabrook, NH 03874
Priscilla J. Neault Phone: 603-474-9574

Accreditation Renewal Date: January 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702E.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD813 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII.

Panasonic TLD combination UD809 and UD813 for ANSI-N13.11 category VIII.

NVLAP LAP CODE 0544

FLORIDA POWER & LIGHT
9250 West Flagler Street
P.O. Box 029110, Miami, FL 33102
Sander C. Perle Phone: 305-552-3669

Accreditation Renewal Date: July 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw Automatic reader model 8000.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model LG-7777 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII and Harshaw TLD model L-NG7677 for ANSI-N13.11 category VIII.

NVLAP LAP CODE 0545

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
P.O. Box 968, 3000 George Washington Way
Richland, WA 99352
Mr. David B. Ottley Phone: 509-377-8048

Accreditation Renewal Date: July 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing Teledyne Automatic reader model 9100, and Teledyne Manual reader model 8300.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Teledyne TLD model PB3 with CaSO₄ Beta/gamma card, both primary and back up areas for ANSI-N13-11 category II, IV, V, VII, VIII.

Teledyne TLD model PB3 with CaSO₄ Beta/gamma card and 6LiF/CaSO₄ Neutron card both primary and back up areas for ANSI-N13-11 category VIII.

NVLAP LAP CODE 0546

MISSISSIPPI POWER & LIGHT
GRAND GULF NUCLEAR STATION
P.O. Box 756, Port Gibson, MS 39150
Tommy E. Tankersley Phone: 601-437-2369

Accreditation Renewal Date: July 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0547

SOUTH CAROLINA ELECTRIC & GAS COMPANY
P.O. Box 764, Columbia, SC 29218
Gregory G. Hall Phone: 803-345-1915

Accreditation Renewal Date: July 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories I, II, III, IV, V, VI VII, VIII.

NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM PROCEDURES

(Title 15, Part 7, of the Code of Federal Regulations)

(Effective December 1984)

Subpart A - General Information

Sec.

- 7.1 Purpose.
- 7.2 Description and goal of NVLAP.
- 7.3 Layout of procedures.
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Subpart B - Establishing a LAP

- 7.11 Requesting a LAP.
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- 7.13 Request from a government agency.
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Subpart C - Accrediting a Laboratory

- 7.21 Applying for accreditation.
- 7.22 Assessing and evaluating a laboratory.
- 7.23 Granting and renewing accreditation.
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Subpart D - Conditions and Criteria for Accreditation

- 7.31 Application of accreditation conditions and criteria.
- 7.32 Conditions for accreditation.
- 7.33 Criteria for accreditation.

AUTHORITY: Sec. 2, 31 Stat 1449 as amended (15 U.S.C. 272); Reorg. Plan No. 3 of 1946, Part VI.

SUBPART A - GENERAL INFORMATION

Sec. 7.1 Purpose.

The purpose of Part 7 is to set out procedures under which the National Voluntary Laboratory Accreditation Program (NVLAP) will function.

Sec. 7.2 Description and goal of NVLAP.

- (a) NVLAP is a system for accrediting testing laboratories found competent to perform specific tests or types of tests. Competence is defined as the ability of a laboratory to meet the NVLAP conditions (Section 7.32) and to conform to the criteria (Section 7.33) as tailored and interpreted for the test methods, types of test methods, products, services, or standards for which the laboratory seeks accreditation.
- (b) NVLAP is a voluntary system which:
 - (1) Provides national recognition for competent laboratories;
 - (2) Provides laboratory management with a quality assurance check of the performance of their laboratories;
 - (3) Identifies competent laboratories for use by regulatory agencies, purchasing authorities, and product certification systems; and
 - (4) Provides laboratories with guidance from technical experts to aid them in reaching a higher level of performance resulting in the generation of improved engineering and product information.

(c) NVLAP is comprised of a series of laboratory accreditation programs (LAPs) which are established on the basis of requests and demonstrated need. The specific test methods, types of test methods, products, services, or standards to be included in a LAP must be requested. The Director of the National Bureau of Standards (NBS) does not unilaterally propose or decide the scope of a LAP. Communication with other laboratory accreditation systems is fostered to encourage development of common criteria and approaches to accreditation and to promote the domestic, foreign, and international acceptance of test data produced by the accredited laboratories.

(d) NVLAP is carried out to be compatible with and recognized by domestic, foreign, and international systems for laboratory accreditation so as to enhance the universal acceptance of test data produced by NVLAP-accredited laboratories.

Sec. 7.3 Layout of Procedures.

Subpart A describes considerations which relate in general to all aspects of NVLAP. Subpart B describes how new LAPs are requested, developed and announced, and how LAPs are terminated. Subpart C describes procedures for accrediting laboratories. Subpart D sets out the conditions and criteria for NVLAP accreditation.

Sec. 7.4 Definitions.

Accreditation criteria means a set of requirements used by an accrediting body which a laboratory must meet to be accredited.

Advisory Committee means the National Laboratory Accreditation Advisory Committee.

Director of NBS means the Director of the National Bureau of Standards or designee.

Director of OPSP means the Director of the NBS Office of Product Standards Policy or designee.

Laboratory accreditation is a formal recognition that a testing laboratory is competent to carry out specific tests or types of tests.

Laboratory assessment means the on-site examination of a testing laboratory to evaluate its compliance with specified criteria.

LAP means a laboratory accreditation program established and administered under NVLAP.

NBS means the National Bureau of Standards.

NVLAP means the National Voluntary Laboratory Accreditation Program.

OPSP means the NBS Office of Product Standards Policy.

Person means associations, companies, corporations, educational institutions, firms, government agencies at the federal, state and local level, partnerships, and societies-- as well as divisions thereof--and individuals.

Product means a type or a category of manufactured goods, constructions, installations, and natural and processed materials, or those associated services whose characterization, classification, or functional performance is specified by standards or test methods.

Proficiency testing means methods of checking laboratory testing performance by means of interlaboratory tests.

Testing laboratory is a laboratory which measures, examines, tests, calibrates or otherwise determines the characteristics or performance of products.

Traceability of the accuracy of measuring instruments is a documented chain of comparison connecting the accuracy of a measuring instrument to other measuring instruments of higher accuracy and ultimately to a primary standard.

Sec. 7.5 Establishment and Functions of a National Laboratory Accreditation Advisory Committee.

(a) The Director of NBS shall establish a National Laboratory Accreditation Advisory Committee (Advisory Committee) and appoint its chairperson and members following the filing of a charter setting forth the purpose and nature of the committee.

(b) The composition of the Advisory Committee will be approximately as follows:

- (1) One-third from federal, state and local governments;
- (2) One-third from testing laboratories (independent, corporate, and academic); and
- (3) One-third from users of testing laboratories, academia, consultants, and consumers.

(c) The Advisory Committee will be governed by the Federal Advisory Committee Act (5 U.S.C. App. 2). Persons selected to serve on the Advisory Committee may be paid travel expenses and per diem.

(d) The Advisory Committee shall function solely in an advisory capacity with functions to include the following:

- (1) Assessing the future and continuing role of NVLAP and laboratory accreditation in terms of the changing requirements of industry and commerce;
- (2) Advising on the technical requirements of testing laboratories and those served by the laboratories;
- (3) Advising on the necessity and implementation of proposed amendments to the criteria referenced in Section 7.33;
- (4) Evaluating the interaction of other laboratory accreditation systems with NVLAP; and

- (5) Reviewing and giving recommendations on the development of international accreditation activities and assessing the impact of such activities on NVLAP.
- (e) The Advisory Committee shall meet periodically as called upon by the Director of the NBS Office of Product Standards Policy (OPSP) or may be consulted through periodic mailings from the Director of OPSP.
- Sec. 7.6 User information.
- (a) The Director of OPSP shall prepare and publish at least once each year a directory of accredited laboratories.
- (b) The Director of OPSP shall periodically prepare supplements to the directory of accredited laboratories covering new accreditation actions taken, including initial accreditations, renewals, suspensions, terminations, and revocations.
- Sec. 7.7 Information Collection Requirements.

The information collection requirements contained in these procedures have been approved by the Office of Management and Budget under the Paperwork Reduction Act and have been assigned OMB control number 0652-0003.

SUBPART B - ESTABLISHING A LAP

- Sec. 7.11 Requesting a LAP.
- (a) Any person may request the Director of NBS to establish a LAP.
- (b) Each request must be in writing and must include:
- (1) The scope of the LAP in terms of products or testing services proposed for inclusion;
 - (2) Specific identification of the applicable standards and test methods including appropriate designations, and the organizations or standards writing bodies having responsibility for them;
 - (3) A statement of need for the LAP including:
 - (i) Technical and economic reasons why the LAP would benefit the public interest;
 - (ii) Evidence of a national need to accredit testing laboratories for the specific scope beyond that served by an existing laboratory accreditation program in the public or private sector;
 - (iii) An estimate of the number of laboratories that may seek accreditation; and
 - (iv) An estimate of the number and nature of the users of such laboratories; and
 - (4) A statement of the extent to which the requestor is willing to support necessary developmental aspects of the LAP with funding and personnel.
- (c) The Director of OPSP may request clarification of the information required by paragraph (b) of this section.
- (d) Before determining the need for a LAP, the Director of NBS shall publish a FEDERAL REGISTER notice of the receipt of a LAP request if the request complies with section 7.11(b). The notice will:
- (1) Describe the scope of the requested LAP;
 - (2) Indicate how to obtain a copy of the request; and
 - (3) State that anyone may submit comments on the need for a LAP to the Director of OPSP within 60 days of the date of the notice.

- Sec. 7.12 LAP development decision.
- (a) The Director of NBS shall establish all LAPs on the basis of need. Government agencies and private sector organizations may establish the need by using Sections 7.13 and 7.14.
- (b) After receipt of the request, the Director of NBS shall analyze it to determine if a need exists for the requested LAP. In making this determination, the Director of NBS shall consider the following:
- (1) The needs and scope of the LAP initially requested;
 - (2) The needs and scope of the user population;
 - (3) The nature and content of other relevant public and private sector laboratory accreditation programs;
 - (4) Compatibility with the criteria referenced in Section 7.33;
 - (5) The importance of the requested LAP to commerce, consumer well-being, or the public health and safety;
 - (6) The economic and technical feasibility of accrediting testing laboratories for the test methods, types of test methods, products, services, or standards requested; and
 - (7) Recommendations from written comments for altering the scope of the requested LAP by adding or deleting test methods, types of test methods, products, services, or standards.

(c) If the Director of NBS decides that a need has been demonstrated, and if resources are available to develop a LAP, the Director of OPSP shall notify interested persons of the decision to proceed with development of a LAP.

(d) If the Director of NBS concludes that there is a need for a LAP but there are no resources for development, the Director of OPSP shall notify the requestor and other interested persons of the decision not to proceed until resources become available.

(e) If the Director of NBS decides that a need for a LAP has not been demonstrated, the Director of OPSP shall notify the requestor and other interested persons of the decision and the reasons not to proceed with development of a LAP.

Sec. 7.13 Request from a government agency.

(a) Any federal, state or local agency responsible for regulatory or public service programs established under statute or code, which has determined a need to accredit testing laboratories within the context of its programs, may request the Director of NBS to establish a LAP.

(b) Each request must be in writing and must include the information required in Section 7.11(b) and:

- (1) A description of the procedures followed or a citation of the specific authority used to determine the need for a LAP; and
- (2) For state and local government agencies, a statement of why the LAP should be of national scope.

(c) The Director of OPSP may request clarification of the information required by paragraph (b) of this section.

(d) Before deciding to proceed with development of a LAP, the Director of NBS shall publish a FEDERAL REGISTER notice of the receipt of a LAP request. The notice will indicate how to obtain a copy of the request and will state that anyone may submit comments on the need for a LAP to the requesting government agency within 60 days of the date of the notice.

(e) The Director of OPSP shall notify interested persons of the decision to proceed or not to proceed with development of a LAP.

Sec. 7.14 Request from a private sector organization.

(a) Any private sector organization which has determined a need to accredit testing laboratories for specific products or testing services, may request the Director of NBS to establish a LAP if it uses procedures meeting the following conditions:

- (1) Public notice of meetings and other activities including requests for LAPs is provided in a timely fashion and is distributed to reach the attention of interested persons;
- (2) Meetings are open and participation in activities is available to interested persons;
- (3) Decisions reached by the private sector organization in the development of a request for a LAP represent substantial agreement of the interested persons;
- (4) Prompt consideration is given to the expressed views and concerns of interested persons;
- (5) Adequate and impartial mechanisms for handling substantive and procedural complaints and appeals are in place; and
- (6) Appropriate records of all meetings are maintained and the official procedures used by the private sector organization to make a formal request for a LAP are made available upon request to any interested person.

(b) Each request must be in writing and must include the information required in Section 7.11(b) and a description of the way in which the organization has met the conditions specified in paragraph (a) of this section.

(c) The Director of OPSP may request clarification of the information required by paragraph (b) of this section.

(d) Before deciding to proceed with development of a LAP, the Director of NBS shall publish a FEDERAL REGISTER notice of the receipt of a LAP request. The notice will indicate how to obtain a copy of the request and will state that anyone may submit comments on the need for a LAP to the requesting private sector organization within 60 days of the date of the notice.

(e) The Director of OPSP shall notify interested persons of the decision to proceed or not to proceed with development of a LAP.

Sec. 7.15 Development of technical requirements.

- (a) Technical requirements for accreditation are specific for each LAP. The requirements tailor the criteria referenced in Section 7.33 to the test methods, types of test methods, products, services, or standards covered by the LAP.
- (b) The Director of OPSP shall develop the technical requirements based on expert advice. This advice may be obtained through one or more informal public workshops or other suitable means.
- (c) The Director of OPSP shall make every reasonable effort to ensure that the affected testing community within the scope of the LAP is informed of any planned workshop. Summary minutes of each workshop will be prepared. A copy of the minutes will be made available for inspection and copying at the NBS Records Inspection Facility.

Sec. 7.16 Coordination with federal agencies.

As a means of assuring effective and meaningful cooperation, input, and participation by those federal agencies that may have an interest in and may be affected by established LAPs, the Director of OPSP shall communicate and consult with appropriate officials within those agencies.

Sec. 7.17 Announcing the establishment of a LAP.

- (a) When the Director of OPSP has completed the development of the technical requirements of the LAP and established a schedule of fees for accreditation, the Director of OPSP shall publish a notice in the FEDERAL REGISTER announcing the establishment of the LAP.
- (b) The notice will:
 - (1) Identify the scope of the LAP; and
 - (2) Advise how to apply for accreditation.
- (c) The Director of OPSP shall establish fees in amounts that will enable the LAP to be self-sufficient. The Director of OPSP shall revise the fees when necessary to maintain self-sufficiency.

Sec. 7.18 Adding to an established LAP.

Written requests will be considered from any person wishing to add specific standards, test methods, or types of test methods to an established or developing LAP. The Director of OPSP may choose to make them available for accreditation under a LAP when:

- (a) The additional standards, test methods, or types of test methods requested are directly relevant to the LAP;
- (b) It is feasible and practical to accredit testing laboratories for the additional standards, test methods, or types of test methods; and
- (c) It is likely that laboratories will seek accreditation for the additional standards, test methods, or types of test methods.

Sec. 7.19 Termination of a LAP.

- (a) The Director of NBS may terminate a LAP when the Director of NBS determines that a need no longer exists to accredit testing laboratories for the products or testing services covered under the scope of the LAP. In the event that the Director of NBS proposes to terminate a LAP, a notice will be published in the FEDERAL REGISTER setting forth the basis for that determination.
- (b) The notice published under paragraph (a) of this section will provide a 60-day period for submitting written comments on the proposal to terminate the LAP. All written comments will be made available for public inspection and copying in the NBS Records Inspection Facility.
- (c) After the comment period, the Director of NBS shall determine if public support exists for the continuation of the LAP. If public comments support the continuation of the LAP, the Director of NBS shall publish a FEDERAL REGISTER notice announcing the continuation of the LAP. If public support does not exist for continuation, the LAP will be terminated effective 90 days after the date of the published notice of intent to terminate the LAP.
- (d) If the LAP is terminated, the Director of OPSP shall no longer grant or renew accreditations following the effective date of termination. Accreditations previously granted will remain effective until their expiration date unless terminated voluntarily by the laboratory or revoked by the Director of OPSP.

SUBPART C - ACCREDITING A LABORATORY

Sec. 7.21 Applying for accreditation.

(a) Any laboratory may request an application for accreditation in any established LAPs in accordance with instructions provided in notices announcing the formal establishment of LAPs.

(b) Upon receipt of a laboratory's application, the Director of OPSP shall:

- (1) Acknowledge receipt of the application;
- (2) Request further information, if necessary;
- (3) Confirm payment of fees before proceeding with the accreditation process; and
- (4) Specify the next step(s) in the accreditation process.

(c) In accepting an application from a foreign-based laboratory, the Director of OPSP shall take into consideration the policy of the host government regarding the acceptance of test data from laboratories accredited by NVLAP or other foreign accreditation systems.

Sec. 7.22 Assessing and evaluating a laboratory.

(a) Information used to evaluate a laboratory's compliance with the conditions for accreditation set out in Section 7.32, the criteria for accreditation set out in Section 7.33, and the technical requirements established for each LAP will include:

- (1) On-site assessment reports;
- (2) Laboratory responses to identified deficiencies; and
- (3) Laboratory performance on proficiency tests.

(b) The Director of OPSP shall arrange the assessment and evaluation of applicant laboratories by contract or other means in such a way as to minimize potential conflicts of interest.

(c) The Director of OPSP shall inform each applicant laboratory of any action(s) that the laboratory must take to complete the requirements for assessment and evaluation.

Sec. 7.23 Granting and renewing accreditation.

(a) The Director of OPSP, after reviewing an evaluation report, shall grant or renew, suspend, or propose to deny or revoke accreditation of an applicant laboratory, no later than 30 days following the date of submittal of the report. If accreditation action is not taken within this time limit, the Director of OPSP shall notify the laboratory stating the reasons for the delay.

(b) If accreditation is granted or renewed, the Director of OPSP shall:

- (1) Provide a certificate of accreditation to the laboratory;
- (2) Identify the scope and terms of the laboratory's accreditation;
- (3) Provide guidance on referencing the laboratory's accredited status, and the use of the NVLAP logo by the laboratory and its clients, as needed; and
- (4) Remind the laboratory that accreditation does not relieve it from complying with applicable federal, state, and local laws and regulations.

(c) The Director of OPSP shall notify an accredited laboratory at least 30 days before its accreditation expires advising of the action(s) the laboratory must take to renew its accreditation.

(d) If an accredited laboratory fails to complete the assessment and evaluation process for renewal before its accreditation expires, the Director of OPSP shall notify the laboratory stating that its accreditation has expired and reiterating the action(s) the laboratory must take to renew its accreditation.

Sec. 7.24 Denying, suspending, and revoking accreditation.

(a) If the Director of OPSP proposes to deny or revoke accreditation of a laboratory, the Director of OPSP shall inform the laboratory of the reasons for the proposed denial or revocation and the procedure for appealing such a decision.

(b) The laboratory will have 30 days from the date of receipt of the proposed denial or revocation letter to request a hearing under the provisions of 5 U.S.C. 556. If the laboratory requests a hearing, the proposed denial or revocation will be stayed pending the outcome of the hearing held under provisions of 5 U.S.C. 556. The proposed denial or revocation will become final through the issuance of a written decision to the laboratory in the event that the laboratory does not appeal the proposed denial or revocation within that 30-day period.

(c) If the Director of OPSP finds that an accredited laboratory has violated the terms of its accreditation or the provisions of these procedures, the Director of OPSP may, after consultation with the laboratory, suspend the laboratory's accreditation, or advise of his/her intent to revoke its accreditation. If accreditation is suspended, the Director of OPSP shall notify the laboratory

of that action stating the reasons for and conditions of the suspension and specifying the action(s) the laboratory must take to have its accreditation reinstated. Conditions of suspension will include prohibiting the laboratory from using the NVLAP logo on its test reports during the suspension period. The determination of the Director of OPSP whether to suspend or to propose revocation of a laboratory's accreditation will depend on the nature of the violation(s) of the terms of its accreditation.

(d) A laboratory whose accreditation has been denied, revoked, terminated, or expired, or which has withdrawn its application before being accredited, may reapply and be accredited if the laboratory:

- (1) Completes the assessment and evaluation process; and
- (2) Meets the conditions and criteria for accreditation that are set out in Subpart D;

Sec. 7.25 Voluntary termination of accreditation.

A laboratory may at any time terminate its participation and responsibilities as an accredited laboratory by advising the Director of OPSP in writing of its desire to do so. The Director of OPSP shall terminate the laboratory's accreditation and shall notify the laboratory stating that its accreditation has been terminated in response to its request.

SUBPART D - CONDITIONS AND CRITERIA FOR ACCREDITATION

Sec. 7.31 Application of accreditation conditions and criteria.

(a) To become accredited and maintain accreditation, a laboratory must meet the conditions for accreditation set out in Section 7.32 and the criteria set out in Section 7.33 as tailored for specific LAPs.

(b) The conditions leading to accreditation include acceptance of the responsibilities of an accredited laboratory and requirements for information disclosure.

(c) The criteria are tailored and interpreted for the test methods, types of test methods, products, services or standards of the relevant LAP. These tailored criteria are the technical requirements for accreditation developed through the procedures of Section 7.15.

(d) In applying the conditions, criteria, and technical requirements for accreditation, the Director of OPSP shall not:

- (1) Prohibit accreditation solely on the basis of a laboratory's affiliation or nonaffiliation with manufacturing, distributing, or vending organizations, or because the laboratory is a foreign firm; or
- (2) Develop, modify, or promulgate test methods, standards, or comparable administrative rules.

Sec. 7.32 Conditions for accreditation.

(a) To become accredited and maintain accreditation, a laboratory shall agree in writing to:

- (1) Be assessed and evaluated initially and on a periodic basis;
- (2) Demonstrate, on request, that it is able to perform the tests representative of those for which it is seeking accreditation;
- (3) Pay all relevant fees;
- (4) Participate in proficiency testing as required.
- (5) Be capable of performing the tests for which it is accredited according to the latest version of the test method within one year after its publication or within another time limit specified by the Director of OPSP;
- (6) Limit the representation of the scope of its accreditation to only those tests or services for which accreditation is granted;
- (7) Limit all its test work or services for clients to those areas where competence and capacity are available;
- (8) Limit advertising of its accredited status to letterheads, brochures, test reports, and professional, technical, trade, or other laboratory services publications, and use the NVLAP logo under guidance provided by the Director of OPSP;
- (9) Inform its clients that the laboratory's accreditation or any of its test reports in no way constitutes or implies product certification, approval, or endorsement by NBS;
- (10) Maintain records of all actions taken in response to testing complaints for a minimum of one year;
- (11) Maintain an independent decisional relationship between itself and its clients, affiliates, or other organizations so that the laboratory's capacity to render test reports objectively and without bias is not adversely affected;
- (12) Report to the Director of OPSP within 30 days any major changes involving the location, ownership, management structure, authorized representative, approved signatories, or facilities of the laboratory; and
- (13) Return to the Director of OPSP the certificate of accreditation for possible revision or other action should it:
 - (i) be requested to do so by the Director of OPSP;
 - (ii) voluntarily terminate its accredited status; or

(iii) become unable to conform to any of these conditions or the applicable criteria of Section 7.33 and related technical requirements.

(b) To become accredited and maintain accreditation, a laboratory shall supply, upon request, the following information:

- (1) Legal name and full address;
- (2) Ownership of the laboratory;
- (3) Organization chart defining relationships that are relevant to performing testing covered in the accreditation request;
- (4) General description of the laboratory, including its facilities and scope of operation;
- (5) Name and telephone number of the authorized representative of the laboratory;
- (6) Names or titles and qualifications of laboratory staff nominated to serve as approved signatories of test reports that reference NVLAP accreditation; and
- (7) Other information as may be needed for the specific LAP(s) in which accreditation is sought.

Sec. 7.33 Criteria for accreditation.

(a) Quality System. (1) The laboratory shall operate under an internal quality assurance program appropriate to the type, range, and volume of work performed. The quality assurance program must be designed to ensure the required degree of accuracy and precision of the laboratory's work and should include key elements of document control, sample control, data validation, and corrective action. The quality assurance program must be documented in a quality manual or equivalent (e.g., operations notebook) which is available for use by laboratory staff. A person(s) must be identified as having responsibility for maintaining the quality manual.

(2) The quality manual must include as appropriate:

- (i) The laboratory's quality assurance policies including procedures for corrective action for detected test discrepancies;
- (ii) Quality assurance responsibilities for each function of the laboratory;
- (iii) Specific quality assurance practices and procedures for each test, type of test, or other specifically delineated function performed;
- (iv) Specific procedures for retesting, control charts, reference materials, and interlaboratory tests; and
- (v) Procedures for dealing with testing complaints.

(3) The laboratory shall periodically review its quality assurance system by or on behalf of management to ensure it's continued effectiveness. These reviews must be recorded with details of any corrective action taken.

(b) Staff. (1) The laboratory shall:

- (i) Be staffed by individuals having the necessary education, training, technical knowledge, and experience for their assigned functions; and
- (ii) Have a job description for each professional, scientific, supervisory and technical position, including the necessary education, training, technical knowledge, and experience.

(2) The laboratory shall document the test methods each staff member has been assigned to perform.

(3) The laboratory shall have a description of its training program for ensuring that new or untrained staff are able to perform tests properly and uniformly to the requisite degree of precision and accuracy.

(4) The laboratory shall be organized:

- (i) So that staff members are not subjected to undue pressure or inducement that might influence their judgment or results of their work; and
- (ii) In such a way that staff members are aware of both the extent and the limitation of their area of responsibility.

(5) The laboratory shall have a technical manager (or similar title) who has overall responsibility for the technical operations of the laboratory.

(6) The laboratory shall have one or more signatories approved by the Director of OPSP to sign test reports that reference NVLAP accreditation. Approved signatories shall:

- (i) Be competent to make a critical evaluation of test results; and
- (ii) Occupy positions within the laboratory's organization which makes them responsible for the adequacy of test results.

(c) Facilities and Equipment. (1) The laboratory shall be furnished with all items of equipment and facilities for the correct performance of the tests and measurements for which accreditation is granted and shall have adequate space, lighting, and environmental control, and monitoring to ensure compliance with prescribed testing conditions.

(2) All equipment must be properly maintained to ensure protection from corrosion and other causes of deterioration. Instructions for a proper maintenance procedure for those items of equipment which require periodic maintenance must be available. Any item of equipment or component thereof which has been subjected to overloading or mishandling, gives suspect results, or has been shown by calibration or otherwise to be defective, must be taken out of service and clearly labelled until it has been repaired. When placed back in service, this equipment must be shown by test or calibration to be performing its function satisfactorily.

(3) Records of each major item of equipment must be maintained. Each record must include:

- (i) The name of the item of equipment;

- (ii) The manufacturer's name and type, identification and serial number;
 - (iii) Date received and date placed in service;
 - (iv) Current location, where appropriate;
 - (v) Details of maintenance; and
 - (vi) Date of last calibration, next calibration due date, and calibration report references.
- (d) Calibration. The laboratory shall:
- (1) Calibrate new testing equipment before putting it into service;
 - (2) Recalibrate, at regular intervals, in-service testing equipment with the calibration status readily available to the operator;
 - (3) Perform checks of in-service testing equipment between the regular calibration intervals, where relevant;
 - (4) Maintain adequate records of all calibrations and recalibrations; and
 - (5) Provide traceability of all calibrations and reference standards of measurement where these standards exist. Where traceability of measurements to primary (national or international) standards is not applicable, the laboratory shall provide satisfactory evidence of the accuracy or reliability of test results (e.g., by participation in a suitable program of interlaboratory comparison).
- (e) Test Methods and Procedures. The laboratory shall:
- (1) Conform in all respects with the test methods and procedures required by the specifications against which the test item is to be tested, except that whenever a departure becomes necessary for technical reasons the departure must be acceptable to the client and recorded in the test report;
 - (2) Have data to prove that any departures from standard methods and/or procedures due to apparatus design or for other reasons do not detract from the expected or required precision of the measurement;
 - (3) Maintain a test plan for implementing testing standards and procedures including adequate instructions on the use and operation of all relevant equipment, on the handling and preparation of test items (where applicable), and on standard testing techniques where the absence of such instructions could compromise the test. All instructions, testing standards, specifications, manuals, and reference data relevant to the work of the laboratory must be kept up-to-date and made readily available to the staff;
 - (4) Maintain measures for the detection and resolution of in-process testing discrepancies for manual and automatic test equipment and electronic data processing equipment, where applicable;
 - (5) Maintain a system for identifying samples or items to be tested, which remains in force from the date of receipt of the item to the date of its disposal, either through documents or through marking to ensure that there is no confusion regarding the identity of the samples or test items and the results of the measurements made; and
 - (6) Maintain rules for the receipt, retention, and disposal of test items, including procedures for storage and handling precautions to prevent damage to test items which could invalidate the test results. Any relevant instructions provided with the tested item must be observed.
- (f) Records. The laboratory shall:
- (1) Maintain a record system which contains sufficient information to permit verification of any issued report;
 - (2) Retain all original observations, calculations and derived data, and calibration records for one year unless a longer period is specified; and
 - (3) Hold records secure and in confidence, as required.
- (g) Test Reports. (1) The laboratory shall issue test reports of its work which accurately, clearly, and unambiguously present the specified test results and all required information. Each test report must include the following information as applicable:
- (i) Name and address of the laboratory;
 - (ii) Identification of the test report by serial number, date, or other appropriate means;
 - (iii) Name and address of client;
 - (iv) Description and identification of the test specimen, sample, or lot of material represented;
 - (v) Identification of the test specification, method, or procedure used;
 - (vi) Description of sampling procedure, if appropriate;
 - (vii) Any deviations, additions to, or exclusions from the test specifications;
 - (viii) Measurements, examinations, and derived results supported by tables, graphs, sketches, and photographs, as appropriate, and any failures identified;
 - (ix) A statement of measurement uncertainty where relevant;
 - (x) Identification of the organization and the person accepting technical responsibility for the test report and date of issue;
 - (xi) A statement that the report must not be reproduced except in full with the approval of the laboratory; and
 - (xii) A statement to the effect that the test report relates only to the items tested.

- (2) The laboratory shall issue corrections or additions to a test report only by a further document suitably marked, e.g. "Supplement to test report serial number," which meets the relevant requirements of Section 7.33(g)(1).
- (3) The laboratory shall retain a copy of each test report issued for one year unless a longer period is specified by the Director of OPSP.
- (4) The laboratory shall ensure that all test reports endorsed with the NVLAP logo are signed by an approved signatory.

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<p>This 1986-87 Directory of NVLAP Accredited Laboratories lists laboratories accredited under the procedures of the National Voluntary Laboratory Accreditation Program (NVLAP) as of January 1, 1987. Indexes cross reference the laboratories by name, NVLAP Lab Code Number, test method, accreditation program, and geographical location. The scope of accreditation of each laboratory, listing the test methods for which it is accredited, is provided along with a tabulation of test methods and the laboratories accredited for those test methods.</p>				
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